

BLM LIBRARY



88068484

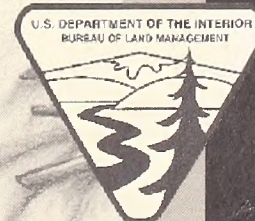
Roseburg District Annual Program Summary and Monitoring Report FISCAL YEAR 2004

BLM
Roseburg District Office

February 2005



HD
243
.07
R674
2004
c.3



As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interest of all our people.

The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

U.S. Department of Interior
Bureau of Land Management

ROSEBURG DISTRICT

ANNUAL PROGRAM SUMMARY

AND

MONITORING REPORT

FISCAL YEAR 2004

February 2005

HD
243
107
RG74
2004
C.3

Table of Contents

Executive Summary.....	3
Annual Program Summary	
Budget	7
Land Use Allocations.....	8
Aquatic Conservation Strategy Implementation.....	8
Riparian Reserves	8
Watershed Analyses	8
Watershed Restoration Projects.....	8
Jobs-in-the-Woods	9
Watershed Councils and Soil and Water Conservation Districts	10
Late-Successional Reserves and Assessments	10
Little River Adaptive Management Area	10
Air Quality	11
Water and Soils.....	11
Watershed activity information for fiscal year 1996-2004	12
State listed Clean Water Act 303d Streams.....	12
Municipal Watersheds	14
Best Management Practices	14
Wildlife Habitat	15
Green tree retention.....	15
Snag and snag recruitment.....	15
Coarse woody debris retention and recruitment	15
Connectivity/Diversity Blocks	15
Special habitats.....	15
Late-Successional Reserve habitat improvement	16
Special Status Species, Wildlife	16
Survey and Manage.....	16
Threatened/Endangered Species	16
Other Species of Concern	17
Special Status Species, Botany	18
Surveys, Monitoring, Consultation and Restoration	18
Fisheries.....	19
District Support	20
Consultation.....	20
Restoration	20
Data Collection.....	20
Outreach Activities	21
Special Areas.....	21
Port-Orford Cedar	22
North Umpqua Wild and Scenic River	22
Cultural Resources.....	23
Visual Resources.....	23
Rural Interface Areas.....	23
Socioeconomic	23
Employment Trends	23
Payments to Counties	23
Environmental Justice.....	24
Jobs-in-the-Woods	24
Recreation	26
Recreation Areas Managed.....	26
Visitor Use.....	26
Recreation Trails Managed.....	27
Permits Issued/Fees Collected	27
Off-highway Vehicle Designations	27
Partnerships and Volunteer work.....	27
Back Country Byways Managed.....	28
Recreation Projects Completed	28
Hazard Tree Assessment Completed	28

Public Fatalities or Serious Injuries at BLM Recreation Sites	28
Status of Recreation Plans	28
Recreation Fee Demonstration Project	29
Timber Sale Pipeline Restoration Funds	29
Forest Management and Timber Resources	30
Silviculture Activities	30
Special Forest Products	36
Noxious Weeds	38
Fire and Fuels Management	39
Access and Rights-of-Way	41
Roads	41
Energy and Minerals	42
Land Tenure Adjustments	43
Unauthorized Use	43
Hazardous Materials	43
Coordination and Consultation	44
Federal Agencies	44
State of Oregon	44
Counties	44
Cities	44
Tribes	44
Watershed Councils	45
Other Local Coordination and Cooperation	45
Research	45
Information Resource Management	46
Cadastral Survey	47
Law Enforcement	47
National Environmental Policy Act Analysis and Documentation	47
NEPA documentation	47
Roseburg District Environmental Documentation, Fiscal Year 1996-2004	48
Protest and Appeals	48
Resource Management Plan Revisions	48
Resource Management Plan Evaluations	49
Plan Maintenance, RMP Amendments and RMP Evaluations	49
Plan Maintenance for fiscal year 1996	50
Plan Maintenance for fiscal year 1997	52
Plan Maintenance for fiscal year 1998	54
Plan Maintenance for fiscal year 1999	55
Plan Maintenance for fiscal year 2000	55
Plan Maintenance for fiscal year 2001	57
2001 Amendment to the Northwest Forest Plan and RMP	60
Plan Maintenance for fiscal year 2002	61
Plan Maintenance for fiscal year 2003	62
2004 Amendments to the Northwest Forest Plan and RMP	64
Plan Maintenance for fiscal year 2004	66
Resource Management Plan Monitoring	
Monitoring Report Fiscal Year 2004	71
Introduction	71
Findings	71
Recommendations	72
Conclusions	72
Monitoring Fiscal Year 2004	
Introduction	73
Background	73
Monitoring Overview	73
Monitoring Process and Approach	74
Monitoring Results and Findings	75
Discussion of Discrepancies	75
Timber Resources	75
Silvicultural Activities	76
Little River Adaptive Management Area	77

Resource Management Plan Monitoring Report

Riparian Reserves	81
Late-Successional Reserves	84
Little River Adaptive Management Area	85
Matrix	86
Air Quality	87
Water and Soils	89
Wildlife Habitat	95
Fish Habitat	96
Special Status Species Habitat	98
Cultural Resources	100
Visual Resources	101
Rural Interface Areas	102
Recreation	103
Special Areas	104
North Umpqua Wild and Scenic River	105
Socioeconomic Conditions	106
Timber Resources	108
Special Forest Products	114
Glossary	115
Acronyms/ Abbreviations	121
Table 1. Roseburg RMP, Summary of Renewable Resource Management Actions, Directions and Accomplishments . 4	
Table 2. Roseburg RMP, Summary of Non-Biological Resource or Land Use Management Actions, Directions and Accomplishments	5
Table 3. Watershed Restoration Projects	9
Table 4. Roseburg District Jobs-in-the-Woods Funding	9
Table 5. 303(d) Listed Waterbodies in the Roseburg District	13
Table 6. Northern Spotted Owl Survey Results for Roseburg District	17
Table 7. Number of Sites by Taxa Group for Special Status Plant Species	19
Table 8. Visitor Use for Boating on the North Umpqua River	22
Table 9. FY 2004 Secure Rural Schools Payments to Counties	25
Table 10. Title II Roseburg District RAC	25
Table 11. Recreation Visits to Roseburg District in Fiscal Year 2004	26
Table 12. Volunteer Work Related to Recreation in Fiscal Year 2004	27
Table 13. Summary of Volume Sold	31
Table 14. Volume and Acres Sold by Allocation	31
Table 15. Sales Sold by Harvest Type	32
Table 16. Sale Acres Sold by Age Class	32
Table 17. Roseburg District Timber Sale Volume and Acres	33, 109
Table 18. Roseburg District Forest Development Activities	35, 111
Table 19. Special Forest Products	37
Table 20. Noxious Weed Management Summary	38
Table 21. Access and R/W Five Year Summary	41
Table 22. Roseburg District Mining Related Activities	43
Table 23. Hazardous Material Incident Five Year Summary	43
Table 24. Roseburg District Cadastral Survey Activity	47
Table 25. Redefine Categories Based on Species Characteristics	61
Table 26. Swiftwater Key Watershed Road Projects Through Fiscal Year 2004	93
Table 27. Swiftwater Non-Key Watershed Road Projects Through Fiscal Year 2004	93
Table 28. South River Key Watershed Road Projects Through Fiscal Year 2004	94
Table 29. South River Non-Key Watershed Road Projects Through Fiscal Year 2004	94
Figure 1. Annual Timber Sale Volume Compared to RMP Projected Harvest Levels	34, 110
Figure 2. Forest Development Accomplishments as a Percent of RMP Assumptions	35

ROSEBURG DISTRICT ANNUAL PROGRAM SUMMARY FISCAL YEAR 2004



ROSEBURG DISTRICT
ANNUAL PROGRAM SUMMARY
FISCAL YEAR 2001

Executive Summary

This document combines the Roseburg District Annual Program Summary and Monitoring Report for fiscal year 2004. These reports are a requirement of the Roseburg District Record of Decision and Resource Management Plan. The Annual Program Summary addresses the accomplishments of the Roseburg District in such areas as watershed analysis, Jobs-in-the-Woods, forestry, recreation, fire, and other programs. It also provides information concerning the Roseburg District budget, timber receipt collections, and payments to Douglas County. The results of the fiscal year 2004 Annual Program Summary show that the Roseburg District is implementing the Northwest Forest Plan, however, the ability to fully implement some programs or program elements such as restoration, recreation and particularly timber over the past nine years has been affected by factors such as the challenge of implementing the Survey and Manage standard and guidelines and ongoing litigation.

The Monitoring Report compiles the results and findings of implementation monitoring for fiscal year 2004. The Monitoring Report, which is basically a “stand alone” document with a separate executive summary follows the Annual Program Summary in this document.

Although the Annual Program Summary gives only a very basic and very brief description of the programs, resources and activities in which the Roseburg District is involved, the report does give the reader a sense of the enormous scope, complexity and diversity involved in management of the Roseburg District public lands and resources. The managers and employees of Roseburg District take pride in the accomplishments described in this report.

Table 1. Roseburg RMP, Summary of Renewable Resource Management Actions, Directions and Accomplishments

RMP Resource Allocation or Management Practice or Activity	Fiscal Year 2004 Accomplishments	Cumulative Accomplishments 1995-2004 Timber 1996-2004 Others	Projected Decadal Practices
Regeneration harvest (acres sold)	0	3,130	11,900
Commercial thinning/ density management (acres sold)	478-436	3936-2027	2,500-0
Site preparation (acres)	0	2,591	8,400
Vegetation control, fire (acres)	0	0	-
Prescribed burning (hazard reduction acres)	0	0	-
Prescribed burning (wildlife habitat and forage reduction acres)	730	2163	-
Natural or artificial ignition prescribed fire for ecosystem enhancement (acres)	0	0	-
Plantation Maintenance/ Animal damage control (acres)	134	9,687	8,300
Pre-commercial thinning (acres)	4,030	35,123	39,000
Brush field/ hardwood conversion (acres)	0	0	150
Planting/ regular stock (acres)	116	4,466	2,900
Planting/ genetically selected (acres)	43	1,576	11,400
Fertilization (acres)	0	5,504	11,400
Pruning (acres)	275	4,519	4,600
New permanent road const. (miles/ acres*)	13.8	39.1	65
Roads fully decommissioned/ obliterated (miles*)	5.3	44.0	
Roads closed/ gated (miles**)	0	12.3	-
Open road density (per square mile*)	4.59	4.59	-
Timber sale quantity sold (m board feet)	15,471	224,660	495,000
Noxious weed control, chemical (acres)	689	2,704	-
Noxious weed control, other (acres)	371	2,709	

* Bureau managed lands only: ** Roads closed to the general public, but retained for administrative or legal access

Table 2. Roseburg RMP, Summary of Non-Biological Resource or Land Use Management Actions, Directions and Accomplishments

RMP Resource Allocation or Management Practice	Activity Units	Fiscal Year 2004 Accomplishments	Cumulative Accomplishments 1995-2004
Realty, land sales	(actions/acres)	1/0.13	1/0.13
Realty, land exchanges	(actions/acres acquired/disposed)	0	1/765/143
Realty, R&PP leases/patents	(actions/acres)	0	0
Realty, road rights-of-way acquired for public/agency use	(actions/miles)	0	8
Realty, road rights-of-way, permits or leases granted	(actions/miles)	0	78
Realty, utility rights-of-way granted (linear/areal)	(actions/miles/acres)	0	13
Realty, withdrawals completed	(actions/acres)	0	0
Realty, withdrawals revoked	(actions/acres)	0	0
Mineral/energy, total oil and gas leases	(actions/acres)	0	0
Mineral/energy, total other leases	(actions/acres)	0	0
Mining plans approved	(actions/acres)	0	1
Mining claims patented	(actions/acres)	0	0
Mineral material sites opened	(actions/acres)	0	0
Mineral material sites, closed	(actions/acres)	0	0
Recreation, maintained off highway vehicle trails	(units/miles)	0	0
Recreation, maintained hiking trails	(units/miles)	8/14	64/112
Recreation, maintained sites	(units/acres)	14/405	98/2835
Cultural resource inventories	(sites/acres)	2/1290	115/8230
Cultural/historic sites nominated	(sites/acres)	0	0
Hazardous material sites	(incidents)	3	24

Annual Program Summary

Introduction

This Annual Program Summary is a review of the programs on the Roseburg District Bureau of Land Management for the period of October 2003 through September 2004. The program summary is designed to report to the public, local, state and federal agencies a broad overview of activities and accomplishments for fiscal year 2004. This report addresses the accomplishments of the Roseburg District in such areas as watershed analysis, Jobs-in-the-Woods, forestry, recreation, and other programs. It also provides information concerning the Roseburg District budget, timber receipt collections, and payments to Douglas County. Included in the Annual Program Summary is the Monitoring Report for the Roseburg District.

Implementation of the Northwest Forest Plan began in April 1994 with the signing of the Northwest Forest Plan Record of Decision. Subsequently, the Roseburg District began implementation of the Resource Management Plan (RMP), which incorporates all aspects of the Northwest Forest Plan, in June 1995 with the signing of the RMP Record of Decision. Fiscal year 2004 represents the ninth full fiscal year of implementation of the Resource Management Plan. RMP amendments and RMP evaluations which occurred in fiscal year 2004 are discussed in this Annual Program Summary.

There are 20 land use allocations and resource programs under the Roseburg District Resource Management Plan. Not all land use allocations and resource programs are discussed individually in a detailed manner in this Annual Program Summary because of the overlap of programs and projects. A detailed background of various land use allocations or resource programs is not given in this Annual Program Summary in order to keep this document relatively concise. Additional information can be found in the Resource Management Plan Record of Decision and supporting Environmental Impact Statement. These documents are available at the Roseburg District office.

The manner of reporting the activities differs among the various programs. Some resource programs lend themselves well to a statistical summary of activities while others are best summarized in short narratives. Further details concerning individual programs on the Roseburg District may be obtained by contacting the Roseburg District office.

Budget

In Fiscal Year 2004, Roseburg District had a total appropriation of \$20,542,000.

- \$12,933,000 Oregon & California Railroad Lands (O&C)
- \$896,000 Jobs-in-the-Woods Program
- \$462,000 Deferred Maintenance
- \$50,000 Forest Ecosystems Health & Recovery
- \$118,000 Forest Pest Control
- \$334,000 Timber Pipeline
- \$63,000 Recreation Pipeline
- \$2,456,000 Title II, Secure Rural Schools
- \$482,000 Management of Lands & Resources (MLR)
- \$1,059,000 Infrastructure Improvement
- \$177,000 Challenge Cost Share/ Cooperative Conservation Initiative
- \$474,000 Fire Related Programs
- \$1,038,000 Construction

The value of District Contracting/Services for Fiscal Year 2004 was approximately \$5,600,000. There were 160 full-time employees during Fiscal Year 2004. An average of 35 term employees, temporary employees, or cooperative student employees was on board at various times throughout the year. The increase in total appropriation from fiscal year 2003 to 2004 was mostly due to increase in infrastructure improvement and construction allocations.

Appropriations for the five previous years 1999 thru 2004:

1999	\$13,376,000
2000	\$16,060,000
2001	\$21,226,000
2002	\$19,397,449
2003	\$18,862,000

Land Use Allocations

There have been no changes to land use allocations during fiscal year 2003

Aquatic Conservation Strategy Implementation

Riparian Reserves

Restoration projects, density management, culvert and road upgrade are described under the programs of Water and Soil, Jobs-in-the-Woods, and road maintenance.

Watershed Analyses

Watershed analysis is required by the Northwest Forest Plan (NFP) Record of Decision (ROD). The primary purpose is to provide decision makers with information about the natural resources and human uses in an area. This information will be utilized in National Environmental Policy Act (NEPA) documentation for specific projects and to facilitate compliance with the Endangered Species Act (ESA) and Clean Water Act (CWA) by providing additional information for consultation with other agencies.

Watershed analyses include:

- Analysis of at-risk fish species and stocks, their presence, habitat conditions and restoration needs;
- Descriptions of the landscape over time, including the impacts of humans, their role in shaping the landscape, and the effects of fire;
- The distribution and abundance of species and populations throughout the watershed;
- Characterization of the geologic and hydrologic conditions.

This information was obtained from a variety of sources, including field inventory and observation, history books, agency records and old maps and survey records.

As of the end of fiscal year 2004, thirty-eight watershed analyses had been completed through at least the first iteration. These watershed analyses involved over 1,000,000 acres, including 425,000 acres of public land administered by the BLM. This watershed analysis effort has encompassed 100% of the Roseburg District.

Watershed Restoration Projects

The District completed a variety of restoration projects in fiscal year 2004 using Jobs-In-The-Woods, County Payments Title II funds, funds ear-marked by Congress for fish

passage restoration, and other appropriated funds. Work occurred in many areas of the District. Table 4 lists the projects accomplished in 2004.

As shown in Table 3, the District emphasized culvert replacement in 2004, completing or awarding contracts for 13 of these projects. However other projects were completed that were designed to improve instream habitat, improve drainage and reduce sediment runoff from roads, or improve riparian vegetation. Several of these projects occurred as part of on-going partnerships intended to restore conditions across ownership boundaries.

Jobs-in-the-Woods

The Jobs-in-the-Woods program was established to mitigate the economic and social impacts of reduced timber harvesting under the Northwest Forest Plan while investing in the ecosystem. Budgets for Jobs-in-the-Woods on the Roseburg District are listed in Table 4.

Table 3. Watershed Restoration Projects accomplished on the Roseburg District in 2004.

Project Name	Funding Source	Year-end status
Cox Creek Culvert #2 Replacement	JITW ¹	Completed
Ward Creek Culvert Replacement	JITW	Completed
Long Valley Culvert Replacement	JITW	Completed
Buckfork Creek Culvert Replacement	Title II ²	Contract Awarded
Lee Creek Culvert Replacements	Title II	Completed
Little Muley Creek Culvert Replacements	Title II	Completed
Holmes Creek Culvert #2 Replacement	Title II	Completed
Fate Creek Culvert Replacement	Title II	Completed
Weaver Creek Culvert #2 Replacement	Title II	Completed
Cox Creek Culvert Replacement	Title II	Completed
Tom Folley Creek Instream Habitat Improvement	Title II	Completed
Martin Creek Instream Habitat Improvement	Title II	Completed
Riser Creek Culvert Replacement	Fish Passage ³	Completed
N. Myrtle Creek Culvert Replacement	Fish Passage	Completed
Hubbard Creek II Culvert Replacement	Fish Passage	Contract Started
Hubbard Creek III Culvert Replacement	Fish Passage	Contract Started
Rader Creek Culvert Replacement	Fish Passage	Completed
Bachelor Creek Culvert Replacement	CCI ⁴	Completed
Riparian Planting at Culverts	Soil and Water ⁵	Completed
Slide Creek Riparian Planting	Soil and Water	Completed
Yellow Creek Road Improvement	Title II	Completed

¹Jobs-in-the-Woods Funding

²Title II funds from the Secure Rural Schools and Community Self-Determination Act (Payments to Counties)

³Appropriated funding earmarked by Congress for fish passage restoration

⁴Funding from the Cooperative Conservation Initiative Program

⁵Funding for Soil and Water Stewardship on O & C lands (6333)

Table 4. Roseburg District Jobs-in-the-Woods Funding

Fiscal Year	Amount of Funding	Fiscal Year	Amount of Funding
1996	\$1,075,000	2001	\$876,000
1997	\$1,000,000	2002	\$903,000
1998	\$1,200,000	2003	\$995,000
1999	\$768,000	2004	<u>\$896,000</u>
2000	\$890,000	Total	\$8,603,000

Seventy-six projects were funded through contracts on the district under this program from 1996 through 2004. These projects include work such as road restoration and renovation to reduce sedimentation, culvert replacement to restore fish passage, and placement of trees in streams to improve fish habitat. In FY 2004 culvert replacement projects were emphasized. The district continues to work closely with private industry and watershed councils to accomplish this work and provide displaced workers with the opportunity to have jobs in the forest environment.

Watershed Councils and Soil and Water Conservation Districts

In 2004 the District continued its strong relationship with the Umpqua Basin Watershed Council Douglas Soil and Water Conservation District. Most of the district's lands are interspersed with privately-owned lands in a checkerboard pattern of alternating square mile sections. This ownership patterns forces us to work with our neighbors in order to accomplish meaningful watershed restoration. The Umpqua Watershed Council and Douglas Soil and Water Conservation District serve as coordinating organizations, bringing many other partners together to work jointly on projects. The Roseburg District's Restoration Coordinator attends all watershed council meetings. In addition, the district's lead Fisheries Biologist attends the meetings of the watershed council's Technical Advisory Committee. The district contributes to specific projects in a couple of ways: (1) it conducts projects on district lands that contribute to restoration goals in areas with multiple land owners. (2) It transfers funds to the watershed council for restoration projects. In return, not only does the district gain many partners, but it leverages money from other sources. The Watershed Council and Soil and Water Conservation Districts have successfully applied for and received numerous grants from organizations such as the Oregon Watershed Enhancement Board, the Department of Environmental Quality's 319 program, the US Fish and Wildlife Service, the Soil Conservation Service, and the Umpqua Fisherman's Derby. The money contributed by the District often serves as matching funds needed for these grants.

Late-Successional Reserves and Assessments

Late-Successional Reserve Assessments have been completed and reviewed by the Regional Ecosystem Office for Late-Successional Reserves RO 151, 222, 223, 251, 257, 259, 260, 261, 2663, 254, 265, 266 and 268. All mapped Late-Successional Reserves on the Roseburg District are now covered by a completed and Regional Ecosystem Office reviewed Late-Successional Reserve assessment. Many of the Late-Successional Reserve assessments were joint efforts involving the US Forest Service and other BLM districts.

During fiscal year 2009, 0 acres of density management occurred in Late-Successional Reserves. During the period of 1995 through 2004, there were 823 acres of density management and 219 acres of salvage (includes right of way harvests) that took place in Late-Successional Reserves. This represents approximately 0.05 % of Late-Successional Reserve acreage on the Roseburg District. Other forestry activities that have occurred in Late-Successional Reserves include planting and precommercial thinning. All of these activities were accomplished under either initial LSR assessments completed prior to fiscal year 1997 or subsequent Late-Successional Reserve assessments which met applicable standards and guidelines.

Little River Adaptive Management Area

Little River Adaptive Management Area is one of ten Adaptive Management Areas designated under the Northwest Forest Plan for ecosystem management innovation including community collaboration and management applications. The management

emphasis of Little River Adaptive Management Area as set forth in the Northwest Forest Plan is the development and testing of approaches to the integration of intensive timber production with restoration and maintenance of high quality riparian habitat. Working with other agencies, organizations, and the public are other areas of learning.

In January 1997, the Roseburg District BLM and the Umpqua National Forest released a draft of the Little River Adaptive Management Area Plan. A requirement of the Northwest Forest Plan, the AMA document frames a direction for adaptive management on the Federally managed experimental area. Both Roseburg BLM and the Umpqua National Forest are currently managing the Little River Adaptive Management Area under the draft Adaptive Management Area plan and in accordance with the Northwest Forest Plan. There is currently no strategy for completing the Little River Adaptive Management Area Plan.

In 1998, the major landholders in the Cavitt Creek area (BLM, USFS, and Seneca Jones Timber Company) along with the Umpqua Basin Watershed Council initiated an effort to inventory and prioritize road-related risks. This process identified the roads that are high risk to aquatic resources and in need of restoration. This cooperative effort was intended to more effectively address water quality and fisheries concerns in areas with intermingled private and public lands. Surveys of 204 miles of roads were completed in February, 2001.

A total of five stream crossing culverts that restrict or impede fish passage were replaced in 2002. Three of these were accomplished by the BLM and two by Seneca Jones Timber Company.

Water quality monitoring continues to be a major emphasis for the Little River AMA. The monitoring program is an interagency effort that includes temperature stations, multi-parameter grab sample measurement by volunteers and the Glide School students, and continuous monitoring. All water quality data will be linked to an interagency GIS.

Timber harvest related to the Roseburg District ASQ from the Little River Adaptive Management Area is at 15% of the RMP assumed level.

Other projects already developed or still under development include research that investigates the endangered mariposa lily, and fertilization effects on water quality.

Air Quality

All prescribed fire activities conformed to the Oregon Smoke Management and Visibility Plans. No intrusions occurred into designated areas as a result of prescribed burning on the district. There are no Class I airsheds within the district. Air quality standards for the district prescribed fire and fuels program are monitored and controlled by the Oregon Department of Forestry.

Water and Soils

Water temperature was monitored at 41 streams on the Roseburg District. These data will be used in watershed analysis, water quality management plans, and will be provided to DEQ for TMDL development and assessment.

A water quality study was completed in cooperation with the US Geological Survey on trace elements in the South River resource area of the district. These data will be used as baseline data for watershed analysis, water quality management plans, and for abandoned mine use inventory.

Methods taught at Rosgen training courses were used by BLM personnel to survey 12 stream gauging sites in the ongoing effort to develop regional curves of channel geomorphology used for improved accuracy of flow predictions, better design of instream structures, improve our ability to assess changes in peak flow as a result of management activities, monitor changes over time, and classify streams.

Turbidity and sediment data were collected and analyzed through the cooperative study with the Umpqua National Forest.

Stream water quality was monitored and published for the North Umpqua River Wild and Scenic Section in the U.S. Geological Survey water-data report through the cooperative study (an ongoing annual effort) with Douglas County Water Resources Survey.

Stream flow was monitored at selected sites through the cooperative study (an ongoing annual effort) with the Douglas County Water Resources Survey.

Watershed activity information for fiscal year 1996-2004

- Surveyed 555 miles of streams for proper functioning condition;
- Operated 6 gaging stations;
- Five studies for sediment;
- Water temperature was monitored for 141 streams;
- 45 sites for water chemistry;
- Cooperatively monitored water quality on the North Umpqua Wild and Scenic River;
- Completed a cooperative study with the USGS;
- Continued to cooperatively develop a study with USGS for timber fertilization in the Little River Adaptive Management Area;
- Over 500 acres of brushed conifer reestablishment;
- 500 acres of density management in riparian reserves to attain aquatic conservation strategy objectives;
- Re-established a cooperative gage with USGS, Forest Service and Douglas County;
- Established a district macro-invertebrate monitoring program; completed 44 water rights applications with Oregon Water Resources;
- Completed densification of GIS stream layer and ARIMS streamflow routing of stream layer;
- Prepared seven Water Quality Restoration Plans and submitted to Oregon Department of Environmental Quality (ODEQ);
- Completed watershed analysis on 100% of BLM-administered lands of Roseburg District
- Numerous hydromulching projects to reduce sediment.
- Surveyed the geomorphology of the Days Creek, Smith River, Slide Creek, and Thompson Creek Large Woody Debris (LWD) placement projects.
- Applied bioengineering and rock or wood weirs to culvert replacement project to arrest head cutting both up and down stream of the sites.
- Participated in the completion of the Little River Total Maximum Daily Load (TMDL).
- Participated in the development of the South Umpqua, North Umpqua, and Umpqua River subbasins TMDL's (completion date FY 2005).

State-listed Clean Water Act 303d streams

The Roseburg District has 67 state-listed streams identified by the ODEQ.

Table 5. 303(d) Listed Waterbodies in the Roseburg District

Stream or Waterbody Name	Sub Basin	Criteria for Listing	Resource Area
Battle Creek	Coquille	Temperature-Spawning	South River
Bingham Creek	Coquille	Temperature-Rearing	South River
Boulder Creek	Coquille	Temperature-Rearing	South River
Canyon Creek	South. Umpqua	Temperature-Rearing	South River
Cattle Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Coffee Creek	South Umpqua	Temperature-Rearing	South River
Cow Creek	South Umpqua	Temperature-Rearing and Spawning, pH	South River
Days Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Deadman Creek	South Umpqua	Temperature-Rearing	South River
East Fork Shively Creek	South Umpqua	Temperature- Rearing and Spawning	South River
East Fork Stouts Creek	South Umpqua	Temperature- Rearing and Spawning	South River
Elk Valley Creek	South Umpqua	Temperature-Rearing	South River
Fate Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Iron Mountain Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Lavadoure Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Martin Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Middle Creek	South Umpqua	Temperature-Rearing	South River
Middle Fork Coquille River	Coquille	Temperature-Rearing and Spawning, Fecal Coliform, Dissolved Oxygen	South River
Middle Fork Deadman Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Mitchell Creek	South Umpqua	Temperature-Rearing	South River
North Fork Deer Creek	South Umpqua	E Coli	South River
North Myrtle Creek	South Umpqua	Temperature-Rearing	South River
Olalla Creek	South Umpqua	Temperature-Rearing, Biological Criteria	South River
Poole Creek	South Umpqua	Temperature-Rearing	South River
Rice Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Riser Creek	South Umpqua	Temperature-Rearing	South River
Saint John Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Shively Creek	South Umpqua	Temperature-Spawning	South River
Slide Creek	South Umpqua	Temperature-Rearing and Spawning	South River
South Fork Middle Creek	South Umpqua	Temperature- Rearing and Spawning	South River
South Myrtle Creek	South Umpqua	Temperature-Rearing and Spawning	South River
South Umpqua River	South Umpqua	Temperature-Rearing and Spawning, Fecal Coliform, Biological Criteria, pH, Aquatic Weeds or Algae, Chlorine	South River
Stouts Creek	South Umpqua	Temperature-Rearing	South River
Thompson Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Tributary to W. Fork Canyon Ck.	South Umpqua	South Umpqua	Temperature-
Rearing and Spawning	South River		
Twelvemile Creek	Coquille	Temperature-Rearing	South River
Union Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Weaver Creek	South Umpqua	Temperature-Spawning	South River
West Fork Canyon Creek	South Umpqua	Temperature-Rearing and Spawning	South River
Brush Creek	Umpqua	Temperature-Rearing	Swiftwater
Canton Creek	North Umpqua	Temperature-Rearing, Sedimentation	Swiftwater
Cleghorn Creek	Umpqua	Temperature-Rearing and Spawning	Swiftwater
East Fork Rock Creek	North Umpqua	Temperature-Spawning	Swiftwater
East Pass Creek	North Umpqua	Temperature- Spawning	Swiftwater
Elk Creek	Umpqua	Temperature-Rearing, Fecal Coliform, Dissolved Oxygen	Swiftwater

Table 5. 303(d) Listed Waterbodies in the Roseburg District (continued)

Stream or Waterbody Name	Sub Basin	Criteria for Listing	Resource Area
Halfway Creek	Umpqua	Temperature- Spawning	Swiftwater
Harrington Creek	North Umpqua	Temperature-Rearing and Spawning	Swiftwater
Honey Creek	North Umpqua	Temperature-Rearing and Spawning	Swiftwater
Little Wolf Creek	Umpqua	Temperature-Rearing and Spawning	Swiftwater
Mellow Moon Creek	North Umpqua	Temperature- Spawning	Swiftwater
Miller Creek	North Umpqua	Temperature- Spawning	Swiftwater
Miner Creek	Umpqua	Temperature-Rearing and Spawning	Swiftwater
North Fork Tom Folley Creek	Umpqua	Temperature-Rearing and Spawning	Swiftwater
North Umpqua River	North Umpqua	Temperature-Spring and Rearing, Arsenic	Swiftwater
Radar Creek	Umpqua	Temperature-Rearing and Spawning	Swiftwater
Rock Creek	North Umpqua	Temperature-Rearing and Spawning	Swiftwater
Scaredman Creek	North Umpqua	Temperature- Spawning	Swiftwater
Smith River	Umpqua	Temperature-Rearing	Swiftwater
South Fork Little Smith River	Umpqua	Temperature- Spawning	Swiftwater
South Fork Smith River	Umpqua	Temperature-Rearing	Swiftwater
Susan Creek	North Umpqua	Temperature-Rearing and Spawning	Swiftwater
Sutherlin Creek	North Umpqua	Arsenic, Lead, Iron, Manganese	Swiftwater
Tom Folley Creek	Umpqua	Temperature-Rearing and Spawning	Swiftwater
Umpqua River	Umpqua	Temperature-Rearing, Fecal Coliform	Swiftwater
Woodstock Creek	North Umpqua	Temperature- Spawning	Swiftwater
Wolf Creek	Umpqua	Temperature-Rearing and Spawning	Swiftwater
Yellow Creek	Umpqua	Temperature-Rearing and Spawning	Swiftwater

Municipal Watersheds

There are 26 community water systems with BLM-administered lands within the Roseburg District. The district has entered into memorandums of understanding with the cities of Drain, Riddle, and Canyonville. The objective of these agreements is to maintain the best water quality through Best Management Practices. A Special Land Use Permit has been issued to the City of Myrtle Creek for watershed protection which includes the city intake and the adjoining 190 acres. There have been no reports of contamination or water quality violations from BLM-administered lands.

Best Management Practices

Best Management Practices are identified and required by the Clean Water Act as amended by the Water Quality Act of 1987. Best Management Practices are defined as methods, measures, or practices to protect water quality or soil properties. Best Management Practices are selected during the NEPA interdisciplinary process on a site specific basis to meet overall ecosystem management goals. The Roseburg District Record of Decision and Resource Management Plan lists Best Management Practices for various projects or activities that may be considered during the design of a project. Monitoring of the RMP during 1996-2004 has shown that Best Management Practices have been appropriately implemented with a high degree of success.

Wildlife Habitat

Green tree retention

The RMP management direction is to retain six to eight green conifers trees per acre in the General Forest Management Area and 12 to 18 green conifer trees per acre in the Connectivity/Diversity Blocks. The retained trees are to be distributed in variable patterns to contribute to stand diversity. The implementation of this management direction has been complex due to the many variables involved including ecological objectives and operational feasibility. Monitoring has shown no instances in which this RMP management direction was not implemented successfully.

Snag and snag recruitment

Approximately two snags per acre are being left on each regeneration harvest unit. As many existing snags as possible that are not safety hazards are attempted to be retained. In areas where adequate number of snags are not present or are not retained due to operational limitations, additional green trees are being reserved during project design and layout. The implementation of this management direction, similar to green tree retention, has been complex due to the many variables involved including ecological objectives and operational feasibility. Monitoring has shown no instances in which this RMP management direction was not implemented successfully.

Coarse woody debris retention and recruitment

RMP management direction is to leave 120 linear feet of logs per acre greater than or equal to 16 inches in diameter and 16 inches long. Where this management direction cannot be met with existing coarse woody debris, merchantable material is used to make up the deficit. Monitoring has shown no instances in which this RMP management direction was not implemented successfully.

Connectivity/Diversity Blocks

There were 251 acres of commercially thinning treatments applied to Connectivity/Diversity Blocks in fiscal 2004, as well as 7 acres in rights-of-way. There were 463 acres of regeneration harvest, 1,672 acres of commercial thinning, and 180 acres of salvage (includes right-of-way harvest) in Connectivity/Diversity Blocks cumulative during fiscal years 1995-2004. Twenty-five percent of Connectivity/Diversity Blocks are maintained in late-successional forest at any point in time.

Special habitats

Special habitats are forested or non-forested habitat which contributes to overall biological diversity with the district. Special habitats may include: ponds, bogs, springs, sups, marshes, swamps, dunes, meadows, balds, cliffs, salt licks, and mineral springs. Interdisciplinary teams identify special habitat areas and determine relevance for values protection or management on a case by case basis. Special habitats have not been a frequently used management tool because of overlapping management action/direction for streams, wetlands, survey and manage species, and protection buffer species. For example, wetlands are frequently identified and protected as riparian reserves during project design and layout, therefore special habitat designation is unnecessary.

Late-Successional Reserve habitat improvement

Habitat improvement in Late-Successional Reserves for Fiscal Year 2003 consisted of 1575 acres of density management in precommercial stands. Active habitat improvement in Late-Successional Reserves through commercial density management in stands less than 80 years old consisted of 189 acres in fiscal year 2003. Total commercial density management in Late-Successional Reserves from 1995 through fiscal year 2003 has been 809 acres.

Special Status Species, Wildlife

Survey and Manage

The Record of Decision to Remove or Modify the Survey and Manage Mitigation Measure Standards and Guidelines in Forest Service and Bureau of Land Management Planning Documents within the Range of the Northern Spotted Owl was signed in March 2004. This ROD amended the local RMP by removing the Survey and Manage mitigation measure standards and guidelines. The conservation of those species formally recognized as survey and manage would occur within the management direction set out in the Bureau special status species policy, for those species that met special status species criteria.

Threatened/Endangered Species

A large portion of the District wildlife program's resources are directed toward gathering and interpreting information to ensure compliance with the Endangered Species Act and the land use plan. Consultation under Section 7 of the Endangered Species Act occurs on all activities proposed within habitat of listed species. Consultation was completed for all fiscal year 2003-2008.

Northern Spotted Owl

The Roseburg District currently contains 192,990 acres of suitable owl habitat. An additional 215,426 acres are considered "habitat - capable". A total of 110,665 acres are considered Critical Habitat suitable for nesting, roosting, or foraging. One hundred acre retention areas of best northern spotted owl habitat were established around all owl activity centers that were known as of January 1, 1994. A total of 142 owl activity centers covering 134,421 acres were established.

Annual monitoring is conducted to determine owl nesting activity on the District. Detailed information is gathered on spotted owl sites on federal land as well as some sites on private land adjacent to federal land. Much of the monitoring information is used to assist in evaluating the success of the Forest Plan for supporting viable owl populations; this is part of the larger monitoring plan for the Northwest Forest Plan (Lint, *et al.* 1999). Results of these efforts are as follows:

Marbled Murrelet

Surveys have been conducted for marbled murrelet on the Roseburg District since 1992. Of the 189,499 acres of public land within the zones of potential habitat for the murrelet, 83,285 acres have been classified as suitable habitat. In fiscal year 2004, 1795 acres were surveyed for marbled murrelet. Two of ten historically occupied sites were occupied in fiscal year 2004. Two new sites were determined to be occupied. Murrelets were detected at one additional site.

Table 6. Northern Spotted Owl Survey Results for Roseburg District.

Survey Year	Sites Surveyed ¹ Occupied	No. Pairs Observed ²	Proportion of Sites ³
1996	332	146	50%
1997	303	125	48%
1998	303	130	47%
1999	279	122	52%
2000	253	124	54%
2001	252	135	56%
2002	264	141	55%
2003	253	144	64%
2004	280	148	58%

¹ Sites which had one or more visits. May include some sites which did not receive 4 visits

² Includes only pairs. Does not include single birds or 2 bird pairs of unknown status.

³ Proportion of sites surveyed with either a resident pair or resident single.

Bald Eagle

Seven bald eagle nest sites have been located on public land in the district. Six of the sites have management plans. Seasonal restrictions and distance buffers are applied to proposed activities in the vicinity of bald eagle nest sites. No winter roosts or concentration sites have been located on public land in the district.

Other Species of Concern

This category includes other species which have received special tracking emphasis on the district.

Townsend's Big-eared Bat

The Pacific Townsend's big-eared bat is a former Federal Candidate species. It remains listed as a candidate species by the state of Oregon, is on list two of the Oregon Natural Heritage Program and is listed as a BLM sensitive species for Oregon. In the summer of 1999 a maternity colony of Townsend's big-eared bats was located on the Roseburg District. A site management plan has been completed and as a component of that plan yearly monitoring is being conducted.

Northern Goshawk

The northern goshawk is a former candidate species. It is a Bureau sensitive species, as state of Oregon candidate species and an Oregon Natural Heritage Program List three species. There are six known goshawk sites on the District. Northern goshawk surveys are conducted as part of the timber sale planning process on a portion of the District. A total of 1306 acres were surveyed for goshawks in fiscal year 2004. Juvenile goshawks were detected at no known sites. Goshawks were detected at two new sites.

Peregrine Falcon

Peregrine falcon inventory efforts began in 1996. Potential peregrine falcon habitat on the district was mapped and habitats evaluated for their potential to support nest

sites. Intensive field surveys were conducted in high potential habitat in an attempt to document nesting activity. There are eight known nest sites within the boundaries of the Roseburg District. In fiscal year 2004, six sites fledged young.

Special Status Species, Botany

Surveys, Monitoring, Consultation, and Restoration

The Survey and Manage (S&M) Record of Decision (ROD) removed the S&M Standards and Guidelines effective April 21, 2004. As a separate action to the removal of the S&M Standards and Guidelines, the 296 S&M species were assessed against BLM Oregon State Office criteria to determine if species should be added to the BLM Oregon/Washington Special Status Species (SSS) Program. As a result, the Roseburg District currently has 61 Special Status plant species that are either known or suspected to occur on BLM land. This includes species that were already SSS and S&M species that met the criteria for SSS. The Roseburg District SSS list includes 10 fungi, 10 bryophyte, 7 lichen, and 34 vascular species. In addition there are 108 Tracking plant species — 49 fungi, 5 bryophyte, 24 lichen, and 30 vascular species -- known or suspected to occur within the District. The Bureau Tracking category is used for species for which more information is needed to determine their status. Tracking species are not considered Special Status Species and special protection and management is discretionary. The number of Special Status and Tracking plant sites known to occur on public lands within the District at the end of fiscal year 2004 are presented by status category in Table 7.

Pre-project evaluations for SSS are conducted in compliance with RMP management direction prior to all ground disturbing activities. Approximately 1390 acres were surveyed in 2004. Project surveys found one new site each of *Sulcaria badia* (a Bureau Assessment lichen) and firecracker plant (*Dichelostemma ida-maia*, a Bureau Tracking vascular plant). Baseline fungi, lichen, and bryophyte inventories have been completed on approximately 2100 acres in District ACECs and ACEC/RNAs. A new population of the federally threatened Kincaid's lupine (*Lupinus sulphureus* ssp. *kincaidii*) was found in 2004, bringing the total count on the District to six populations consisting of 12 sites.

Three SSS plants have been monitored on an annual basis to determine population trends: wayside aster (*Eucephalus vialis*), Umpqua mariposa lily (*Calochortus umpquaensis*), and crinite mariposa lily (*Calochortus coxii*). A fourth species, tall bugbane (*Cimicifuga elata*), will be monitored in intervals of three to five years because the population has remained stable or increasing since 1996. Monitoring of population enhancement projects for two SSS (Koehler's rockcress (*Arabis koehleri* var. *koehleri*) and red-root yampah (*Perideridia erythrorhiza*)) continued. In addition new plots were established to monitor the effects of prescribed burning on another population of red-root yampah. Monitoring continued on the three populations of the federally endangered rough popcorn flower (*Plagiobothrys hirtus*) that were established in cooperation with the Oregon Department of Agriculture in 1998, 1999, and 2002, in the North Bank Habitat Management Area ACEC. Monitoring continued using the transects established in 2003 on three populations of Kincaid's lupine. In addition, transects were established in the large population of Kincaid's lupine discovered in 2003.

Three Conservation Strategies have been completed since publication of the RMP (Umpqua mariposa lily, crinite mariposa lily, and tall bugbane). A Conservation Agreement with the U.S. Fish & Wildlife Service for Umpqua mariposa lily was completed in 1996. A second Conservation Agreement for crinite mariposa lily was completed in 2004. The Conservation Agreement (CA) identifies and schedules management actions to remove or limit threats to the species and provide for its long-term survival. The CA specifies that the BLM will conduct habitat restoration projects,

such as tree thinning and prescribed burning, every 10 to 20 years as needed. In 2004 a habitat restoration project involving removal of all trees less than six inches diameter at breast height was implemented in the Langell Ridge population of crinite mariposa lily. In addition, larger trees were pruned to prepare for a possible prescribed fire in the future.

Endowments have been created for three SS plant species with the Berry Botanic Garden to support long term storage of seed. This seed will be used as an emergency safeguard against extinction and for future habitat restoration projects.

A land acquisition of approximately 39 acres was completed at the end of fiscal year 2001 for the Umpqua mariposa lily (*Calochortus umpquaensis*).

The BLM fenced an 80 acre parcel of Public Domain near Tiller to protect a population of Kincaid's lupine and a population of Umpqua mariposa lily from livestock grazing. Scotch broom and Himalayan blackberry were removed from approximately one acre within another Kincaid's lupine population.

The Roseburg District is also implementing a native plant materials development program to develop native seed mixes and straw for a variety of restoration projects. Two native perennial grasses are currently growing under contract. In 2004, over 8,000 pounds of seed were produced. District staff collected small quantities of other native species for seed increase and future use.

Fisheries

During fiscal year 2004, the Roseburg District Fisheries Program continued the on-going work of implementing the Northwest Forest Plan, and the Aquatic Conservation Strategy of that plan. The District is staffed with six full-time Fisheries Biologists. Major duties were divided among the following workloads: District support (i.e. NEPA projects), ESA consultation, watershed restoration, data collection and monitoring, and outreach activities. Additionally, the District has been very active in providing fisheries expertise to the Technical Advisory Committee of the local Watershed Council, in support of the State's Plan for Salmon and Watersheds.

Table 7. Number of Sites by Species Group for Special Status and Tracking Plant Species¹

Species Group	Status ²						
	FE	FT	FP	FC	BS	BA	TR
Fungi	--	--	--	--	11	—	30
Lichens	--	--	--	--	—	2	84
Bryophytes	--	--	--	--	--	3	0
Vascular Plants	3	12	0	0	102	28	212
Total	3	12	0	0	113	33	326

¹The number of sites reported here reflects the addition of several former Survey and Manage species to the Special Status Species and Bureau Tracking lists.

²Status: FE=Federal Endangered
 FT=Federal Threatened
 FP=Federal Proposed
 FC=Federal Candidate
 BS=Bureau Sensitive
 BA=Bureau Assessment
 TR=Tracking Species

District Support

ID Teams - NEPA Analysis - District fisheries personnel participated as Interdisciplinary Team (IDT) members for numerous projects throughout fiscal year 2004, including several Right-of-way assessments, eleven large Environmental Assessments, and numerous Categorical Exclusions. In addition, the District Fisheries Biologist served on a part time detail to the Umpqua National Forest as the lead fisheries specialist on a large EIS team.

ESA Section 7 Consultation

The entire Roseburg District lies within the Oregon Coast Evolutionarily Significant Unit for coho salmon, a formerly listed and currently proposed threatened species. As a result, District fisheries staff continued their involvement as active members on the Umpqua and Coos-Blanco Level 1 consultation teams. Six Biological Assessments (BA's) were completed for timber sale projects on lands managed by the Roseburg District. In addition, numerous projects from other administrative units were reviewed as part of the Level 1 Consultation Streamlining process. Increasing requests for detailed information from Level 1 consultation teams resulted in a substantial increase in the time spent preparing and evaluating biological assessments in fiscal year 2004.

District fisheries staff also actively participated in the testing and revision of a new "Analytical Procedure" (AP) for aquatic ESA consultation, and then developed a Field User's Guide to aid in the use and understanding of this new process. This new AP has been accepted and is currently in use across the Northwest Forest Plan area.

Additionally, numerous routine actions (eg. road maintenance, non-commercial vegetation treatments, watershed restoration, etc.) were completed using the Programmatic Biological Opinion for the Southwest Oregon Province.

Watershed Restoration

In-stream — Four in-stream large wood restoration projects were implemented during the summer of fiscal year 2004. The projects resulted in the placement of 202 logs into 5 miles of stream, and will result in improved habitat complexity and channel stability in these important coho bearing streams. In addition, fisheries biologists planned and designed large wood restoration projects in three streams for implementation in FY 05.

Riparian — The second phase of a five year riparian restoration project was implemented during fiscal year 2004. The focus of this project is noxious weed removal and conifer re-establishment in association with an in-stream restoration project. In addition, innovative riparian bioengineering techniques continue to be utilized to stabilize banks and reduce sediment contributions in areas where large culverts had recently been removed.

Fish Passage Restoration - In fiscal year 2004, the district replaced 21 barrier culverts to facilitate upstream migration of fish (and other aquatic organisms). Overall, these projects resulted in restoring passage to approximately 26.5 miles of fish spawning and/or rearing habitat. At each of these culvert sites, fish in the immediate vicinity were removed and relocated to safer areas prior to commencement of construction activities.

Data Collection and Monitoring

Watershed Analysis — Fisheries biologists in the Swiftwater Resource Area participated in data collection and analysis efforts related to the Elk Creek Watershed Analysis.

Project Monitoring - Annual project photo-points were taken and /or structure placements were evaluated for several large in-stream restoration projects. This monitoring was carried out on a total of over 10 miles of streams. Data gathered was used to assess the affects of stream restoration projects on local habitat conditions, refine future restoration techniques, and better market our restoration efforts.

Fish Distribution Surveys - Six streams were assessed using mask & snorkel, electro-fishing, and /or minnow trapping methods to determine the extent of juvenile fish distribution and species present in these systems. These methods assist biologists in determining exact fish distributions and rough relative abundances, which are important components of virtually all project-specific fisheries reports, Watershed Analyses, and ESA consultations.

Fish Abundance Surveys — Five separate stream reaches (100 meters each) were assessed using single pass electro-shocking surveys. These surveys were done in association with habitat restoration projects, with the intent of accurately estimating the number of juvenile fish present in a given stream segment. These surveys will be repeated in future years to help gauge the effectiveness of in-stream restoration treatments, and to refine restoration techniques.

Spawning Surveys - One 6th field subwatershed was surveyed for coho spawning presence by District fisheries personnel. This large survey effort was coordinated with the ODFW, and helped estimate numbers of coho salmon returning to an entire 6th field subwatershed within the Umpqua River basin. Over time, this information can be used to evaluate population trends and will also contribute to overall restoration project effectiveness monitoring.

Fish Passage Assessments — All remaining fish passage culverts on the Roseburg District were assessed and prioritized by fisheries and engineering staff. This information is used to prioritize culvert replacements in a way that will provide the largest benefit to fish and other aquatic species, while improving important district road infrastructure. In addition, District fisheries and engineering staff played an important role in a multi-agency culvert prioritization effort at the Umpqua River Basin planning scale.

Outreach Activities

District fisheries personnel continued participation in several district programs designed to educate local school students on fisheries and watershed issues. District fisheries personnel volunteered their time and presented information at the Douglas County Fair, the Melrose Elementary School field trip, the Boys and Girls Club, the 4H Wild Wilderness Day Camp, the Salmon Watch program, and for the Girl Scouts.

Special Areas

The Roseburg District has 10 special areas that total approximately 12,193 acres. Defensibility monitoring has been conducted annually on all Areas of Critical Environmental Concern/Research Natural Areas (ACEC/RNA) since publication of the RMP. The off-highway vehicle (OHV) barriers constructed at the North Myrtle Creek ACEC/RNA in fiscal year 2001 appear to have been effective in controlling unauthorized use by OHVs. A Public Lands Day project at Myrtle Island ACEC/RNA brought volunteers and BLM personnel together to remove noxious weeds. The BLM also controlled noxious weeds in the Beatty Creek ACEC/RNA and the North Bank Habitat Management Area/ACEC. Much of the work was performed by juvenile work crews funded with Title II funds. Defensibility monitoring will continue in fiscal year 2005.

BLM purchased and acquired through donation two new additions to the Beatty Creek ACEC/RNA. This brings the total area to approximately 866.41 acres and removes all private in-holdings from within the ACEC/RNA. A Management Plan for the Beatty Creek ACEC/RNA was completed in 2004.

To date, permanent vegetation monitoring plots have been established and baseline data collected in the North Myrtle and Red Ponds ACECs/RNAs. This information is used to characterize existing vegetation and to monitor long-term vegetation change within the RNA. The data was entered into a regional database for vegetation occurring within Research natural Areas throughout the Pacific Northwest. This database is maintained by the Pacific Northwest Research Station, USDA Forest Service, in Corvallis, Oregon.

Port-Orford Cedar

Port-Orford cedar trees growing adjacent to roads and streams can become infected with a water mold, *Phytophthora lateralis*. If the pathogen is present in mud on vehicles and the mud is dispersed into ditches and water courses crossing roads, Port-Orford cedar growing in their vicinity can become exposed and eventually die.

The Roseburg District is working to prevent not introducing the disease into watersheds that presently contain healthy Port-Orford cedar. A series of efforts, such as seasonal-use restrictions on some roads and prohibiting activities such as bough collecting at certain times of the year are on-going mitigative actions.

Other associated District programs include an active program of mapping new locations of the disease, removal of the hosts next to roads, and identification of individual wild trees that are potentially resistant genetically to the disease. In the South River Resource Area, 0.8 miles of roads were treated for the removal of adjacent hosts, and over 600 trees were sampled for potential genetic resistance.

In FY 2004, District personnel were also heavily involved in the completion of both the Port-Orford Cedar Rangewide Assessment and the Final Supplemental Environmental Impact Statement (FSEIS) of the Management of Port-Orford-Cedar in Southwest Oregon. The Assessment was published in late 2003 and the FSEIS and its Record of Decision were released in early 2004.

North Umpqua Wild and Scenic River

Wild and Scenic River Managed:	North Umpqua Wild & Scenic River.
Designation: Recreational Length:	8.4 miles on BLM lands. (33.8 miles total)
Designation Act/Date:	Omnibus Oregon Wild & Scenic Rivers Act of 1988.
Outstanding Remarkable Values:	Fish, Water, Recreation, Scenery and Cultural Resources.

Table 8. Visitor Use for Boating on the North Umpqua River

	1996	1997	1998	1999	2000	2001	2002	2003	2004
Private Boating Visits	3,605	4,405	4,343	4,313	4,311	3,378	3,354	3,506	4,511
Commercial Boating Visits	2,541	2,360	2,270	2,490	2,019	1,704	2,102	2,341	2,125
Boating Visits on BLM section	800	890	680	750	650	420	*	*	*

*No figures available.

Cultural Resources

In fiscal year 2004, the cultural resources program accomplished considerable work under the two major directives of the National Historic Preservation Act. Compliance inventory and evaluation work was accomplished in support of the timber and recreation programs under the authority of Section 106. Cultural resource program initiatives, including evaluations and public projects, were undertaken under Section 110. Two archaeological sites were evaluated and 1,290 acres were inventoried.

Public projects included participation in three Forest Service Passports In Time volunteer projects, several day-camp and elementary school presentations, and participation in the School Forestry Tour. Nearly 500 people, mostly elementary school students, attended these programs.

Visual Resources

There were no management actions in Visual Resource Management Class II and III areas which required VRM analysis. All Visual Resource Management analysis occurred in Visual Resource Management Class IV areas. There were five environmental assessments completed with Visual Resource Management input.

Rural Interface Areas

There were no projects in the Rural Interface Areas during fiscal years 1997-2004.

Socioeconomic

Employment Trends

Douglas County has continued to be a slow growing economic region of the state during 2004.

Payments to Counties

Payments in Lieu of Taxes, O&C Payments, and Coos Bay Wagon Road (CBWR) Payments were made in FY 2004 as directed in current legislation. The specific amounts paid to the counties under each revenue sharing program in FY 2004 are displayed in Table 10.

Fiscal Year 2004 was the third year that payments were made to counties under the Secure Rural Schools and Community Self-Determination Act of 2000 (P.L. 106-393). Counties made elections to receive the standard O&C and CBWR payment as calculated under the Act of August 28, 1937 or the Act of May 24, 1939, or the calculated full payment amount as determined under P.L. 106-393. All counties in the Roseburg District elected to receive payments under the new legislation. Beginning Fiscal Year 2002 and continuing through 2006 payments are to be made based on historic O&C and CBWR payments to the counties. Table 10 displays the statewide payments made under each Title of P.L. 106-393 as well as the grand total and Table 11 displays the Title II payments for this District.

Title I payments are made to the eligible counties based on the three highest payments to each county between the years 1986 and 1999. These payments may be used by the counties in the manner as previous 50-percent and "safety net" payments.

Title II payments are reserved by the counties in special account in the Treasury of the United States for funding projects providing protection, restoration and enhancement of fish and wildlife habitat, and other natural resource objectives as outlined in P.L. 106-3983. BLM is directed to obligate these funds for projects selected by local Resource Advisory Committees and approved by the Secretary of Interior or her designee. Actual payments were made October 31, 2004.

Title III payments are made to the counties for uses authorized in P.L. 106-393. These include: 1) search, rescue, and emergency services on Federal land, 2) community service work camps, 3) easement purchases, 4) forest-related educational opportunities, 5) fire prevention and county planning, and 6) community forestry.

Environmental Justice

Executive Order 12898 of February 11, 1994, "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations" directs all federal agencies to "Ömake achieving environmental justice part of its mission by identifying and addressing Ödisproportionately high and adverse human health or environmental effects of it's programs, policies and activities."

New projects with possible effects on minority populations and/or low-income populations will incorporate an analysis of Environmental Justice impacts to ensure any disproportionately high and adverse human health or environmental effects are identified, and reduced to acceptable levels if possible.

Jobs-in-the-Woods

The Jobs-in-the-Woods program was established to mitigate the economic and social impacts of reduced timber harvesting under the Northwest Forest Plan while investing in the ecosystem. In fiscal year 2004, expenditures on contracts or assistant agreements and supplies and materials under the Jobs-in-the-Woods Program were \$896,000. Since the program began in 1996, the District has received 8.6 million dollars and completed 76 projects using local contractors. These projects include work such as road restoration, renovation and road decommissioning to lessen adverse impacts to water quality from our transportation system; culvert replacements to aid fish passage and to better accommodate water flows associated with large storms; and placement of trees in creeks to enhance spawning gravel and resting pools for fish. The Roseburg District continues to work closely with private industry and watershed councils to accomplish this work and provide displaced workers with the opportunity to have jobs in the forest environment.

Table 9. FY2004 Secure Rural Schools Payments to Counties

(Payments were made October 28, 2004)

	FY2004 Full Payment Amount with CPI	Amount to County (including Title III)	Amount Elected for Projects	Amount Elected for Title III	Amount Elected for Title II
Benton	\$3,157,286.32	2,920,489.85	473,592.94	236,796.47	236,796.47
Clackamas	6,235,921.38	6,058,197.62	935,388.21	757,664.45	177,723.76
Columbia	2,314,594.24	2,081,977.52	347,189.13	114,572.41	232,616.72
Coos	7,459,102.78	7,212,952.39	1,118,865.42	872,715.03	246,150.39
Curry	4,101,101.45	3,787,367.19	615,165.22	301,430.96	313,734.26
Douglas	28,295,946.76	25,112,652.75	4,244,392.01	1,061,098.00	3,183,294.01
Jackson	17,606,646.50	16,286,148.01	2,640,996.98	1,320,498.49	1,320,498.49
Josephine	13,572,960.41	12,554,988.38	2,035,944.06	1,017,972.03	1,017,972.03
Klamath	2,629,199.28	2,313,695.37	394,379.89	78,875.98	315,503.91
Lane	17,157,210.72	15,896,155.73	2,573,581.61	1,312,526.62	1,261,054.99
Lincoln	404,492.20	380,222.67	60,673.83	36,404.30	24,269.53
Linn	2,966,276.12	2,743,805.41	444,941.42	222,470.71	222,470.71
Marion	1,640,440.58	1,578,924.06	246,066.09	184,549.57	61,516.52
Multnomah	1,224,712.49	1,192,712.49	183,706.87	151,706.87	32,000.00
Polk	2,426,953.19	2,354,144.59	364,042.98	291,234.38	72,808.60
Tillamook	629,210.08	566,446.37	94,381.52	31,617.81	62,763.71
Washington	707,861.35	681,316.55	106,179.20	79,634.40	26,544.80
Yamhill	808,984.40	808,984.40	121,347.66	121,347.66	0.00
Total	\$113,338,900.25	\$104,531,181.35	\$17,000,835.04	\$8,193,116.14	\$8,807,718.90

Table 10. Title II Roseburg District RAC (Payments were made October 31, 2003)

Douglas	\$2,037,308.17
Jackson	\$13,337.03
Total	\$2,050,645.20

Recreation

Recreation Management Areas (RMAs):

<u>Swiftwater Resource Area</u>	
Swiftwater Extensive RMA	219,243 acres
North Umpqua River Special RMA	1,722 acres
Umpqua River Special RMA	2,240 acres
<u>South River Resource Area</u>	
South River Extensive RMA	200,673 acres
Cow Creek Special RMA	1,710 acres

Visitor Use

Recreation visits to Roseburg District BLM lands in FY-2004: 432,800
(1% increase from FY-2003)

Table 11. Recreation visits to Roseburg District in Fiscal Year 2004

<u>Developed Recreation Areas/Sites</u>	<u>No. of Visits</u>
Susan Cr. Campground	8,290
Susan Cr. Day-Use Area	13,700
Susan Cr. Falls Trail	7,100
Rock Cr. Recreation Site	4,230
Millpond Recreation Site	6,250
Lone Pine Group Campground	1,250
Cavitt Cr. Recreation Site	4,550
Tyee Recreation Site	7,510
Eagleview Group Campground	1,100
Scaredman Recreation Site	2,050
Swiftwater Day-use Area	74,800
Wolf Cr. Trail	2,510
Swiftwater Trailhead (No.Ump Tr)	11,400
North Bank Ranch	2,500
Lone Rock Boat Launch	1,150
E-mile Recreation Site	2,150
Osprey Boat Ramp	3,840
Miner-Wolf WW Site	525
Cow Cr. Rec. Gold Panning Area	555
Cow Cr. Back Country Byway	32,760
Island Day-Use Area	2,790
North Kiosk, Cow Creek BCB	860
Salmonid Watchable Wildlife Site, CC	250
<u>Undeveloped Areas:</u>	
Dispersed No. Umpqua SRMA	4,720
Dispersed Umpqua River SRMA	7,464
Dispersed Cow Cr. SRMA	1,100
Swiftwater ERMA	66,746
South River ERMA	52,160
North Umpqua River	7,720
North Umpqua Scenic Byway	92,320
Umpqua River	8,500

Recreation Trails Managed

9 Trails - 15.4 miles (Millpond Sawmill Trail new this year (1-mile))

Permits Issued / Fees Collected

Recreation Use Permits (Campground Permits and pavilion rentals): 3,039
(down from 4,439 in 2003)

Fees Collected: \$78,140 (up from \$62,203)

Special Recreation Permits managed - 22

Ten commercial rafting outfitter guide permits on North Umpqua River through cooperative management agreement with the Umpqua National Forest, ten commercial fishing outfitter guide permits on the North Umpqua River through cooperative management agreement with the Umpqua National Forest, one permit for a car show at Millpond Recreation Site, and one permit for joint issuance with the Medford District BLM for Cycle Oregon on the Cow Creek Back Country Byway.

Off-highway Vehicle Designations Managed:

Limited: 422,464 acres

Closed: 3,124 acres

Open: 0 acres

No citations were issued for OHV related violations. Patrols were conducted through popular use areas and users were talked to by BLM law enforcement officers and recreation specialists in the field.

Partnerships and Volunteer Work Managed

Twenty-five individuals or groups (up 10 from 2003) volunteered for BLM at recreation sites, including: Eagle Scout candidates, Boy Scout Troops, church groups, individuals, Phoenix School students, Douglas County Inmates, Northwest Youth Corps, Wolf Creek Job Corps, and campground hosts.

Volunteer Work Completed:

Brushing and limbing trails.

Revegetating recreation sites.

Cleaning recreation sites and river frontage along the North Umpqua River.

Completing construction projects at two new group campgrounds.

Cutting and stacking firewood.

Improving access to recreation sites.

Repairing bridges and puncheons.

Placing crushed rock in rec. pads and along campground roads.

Performing duties assigned to campground hosts.

Table 12. Volunteer Work Related to Recreation in Fiscal Year 2004

Group	Hours volunteered	Value of work
All groups (excluding hosts)	22,010	
Campground hosts	44,310	
All groups total:	66,320	\$ 902,910

BLM relied upon youth volunteers and partnerships in the development of Lone Pine and Eagleview Campground expansions. They worked on project development from beginning to end. Eight Eagle Scout projects contributed 1,373 hours of project work. The Northwest Youth Corps entered into partnership and worked throughout the summer for 3,840 hours. The Wolf Creek Job Corps Hot Shot Crew worked in splitting firewood, cutting trails, and other project work for 4,736 hours during the season. The Oregon Youth Conservation Corps spent 8,530 hours doing special site preparations to get the sites up and running. Douglas County Inmate crews worked to clean campgrounds with 1,680 hours of donated labor. A church group that has adopted Millpond labored 150 hours. Individual volunteers showed up at National Public Lands Day to spread gravel on trails, install signs and benches. Five campground hosts lived at the two sites and offered assistance to users throughout the summer, donating over 44,000 hours of time.

Byways Managed

North Umpqua Scenic Byway - 8.4 of 80 miles — Joint coordination with the Umpqua Natl. Forest, Rogue River Natl Forest and Medford BLM. A celebration of the National byway dedication was held by BLM and the U.S.F.S. in July on both ends of the Rogue-Umpqua National Scenic Byway.

Cow Creek Back Country Byway - 20 of 45 miles — Joint coordination with Medford BLM

Recreation Projects Completed

Completed final projects and campground construction at two new group use sites: Lone Pine and Eagleview Campgrounds. Opened both in May of 2004.

Initiated project work at North Bank Ranch: Drilled new well and started construction on a new shop/storage barn through partnership with Wolf Cr. Job Corps.

Constructed new Millpond Sawmill trail with volunteer labor. One-mile in length between Lone Pine and Millpond recreation sites.

Designed and had new North Umpqua Wild and Scenic River brochure printed in partnership with the Umpqua National Forest.

Hosted the 2004 Recreation Planners Workshop in Roseburg, Oregon. Sixty people attended for week long session, including one full day of tours to the North Umpqua Corridor recreation sites, or a river float down the North Umpqua Wild and Scenic River. Completed GPS inventory of the Hubbard Creek OHV area.

Hazard Tree Assessments Completed

Inventory and treatment of hazard trees was conducted at Susan Creek Campground, Susan Creek Day-Use Area/ Falls Trail, Rock Creek Recreation Site, Millpond Recreation Site, Cavitt Creek Recreation Site, Scaredman Recreation Site, Tyee Recreation Site, North Umpqua Trail at Swiftwater, Lone Pine and Eagleview Group Recreation sites and Island Day-use area. Treatment consisted of limbing trees, removing tree tops, or felling trees.

Public Fatalities or Serious Injuries at BLM Recreation Sites

No fatalities or serious injuries occurred to recreation users at developed BLM sites.

Status of Recreation Plans

North Umpqua SRMA Recreation Area Management Plan	Completed November, 2003
Cow Creek SRMA Recreation Area Management Plan	Completed 2001
Roseburg BLM Off-Highway Vehicle Implementation Plan	Completed 1997
North Umpqua Wild and Scenic River Management Plan	Completed 1992
Umpqua River SRMA Recreation Area Management Plan	Not started.

Recreation Fee Demonstration Project

In March 1998, the Roseburg District received approval for its Recreation Pilot Fee Demonstration Project under the authority of Public Law 104-134, Section 315. This authority allows the retention and expenditure of recreation fees for operations and maintenance of recreation sites. The pilot program was extended through FY-2004 with expenditure of funds required by end of FY-2007. However, in Nov. 2004, permanent legislation was passed through a rider shortly after the start of FY-05. It may become permanent, but has many opposition groups lobbying against it.

An account was established for deposit of fees for camping fees and pavilion rentals at Susan Creek, Millpond, Lone Pine, Rock Creek, Cavitt Creek, Eagleview and Tyee Recreation Sites. New receipts have been collected this year at Lone Pine and Eagleview as they are considered expansions of Millpond and Tyee Recreation Sites respectively. The program also includes fees generated from special recreation permits and passport fees.

In FY 2004, \$78,942 was collected and deposited from campground fees (93%), pavilion rentals (5%), special recreation permits (1%), and passport fees (1%).

Expenditures in the fee demo fund totaled \$83,134. Funding helped complete work at two primary recreation sites: Lone Pine Group Campground and Eagleview Group Campground. New or replacement items that were funded include: sand for tent pads, steel for BBQ grills, new fire rings, varnish and paint for wood facilities, new tables, RR ties for retainer walls, hazard tree work in recreation sites, information board construction, brick pavers for base of kiosks, new brochure racks, softball field backstop, crushed rock for trails, fence replacement, striping roads and parking stalls, hardware for recreation facilities, new trash cans, volleyball net and a variety of vegetation projects. The total for these items was \$30,800.

In other fee site locations, funding was expended on emergency repairs of a septic system, electrical system project repairs (Susan Creek), several campground hosts were funded to clean facilities at fee campgrounds, and a summer recreation temporary employee was paid to maintain fee demo sites. Total expended in the above category was \$52,300.

Timber Sale Pipeline Restoration Funds

Recreation pipeline funds are directed toward backlog recreation projects in six western Oregon BLM Districts. Expenditure of recreation pipeline dollars in 2004 by the Roseburg District was \$64,890 for two projects at the North Bank Ranch: 1) drilling a new well, and 2) beginning construction of a recreation shop and storage barn.

Implementation Monitoring:

Swiftwater Resource Area — A revision of the North Umpqua Recreation Area Management Plan was completed in October 2003. This plan is a consolidation of approximately seven other plans and NEPA documents and would unite these plans.

South River Resource Area — An assessment of four popular use areas for Off-Highway Vehicles was completed in Spring of 2004. The field assessment was done with District and Oregon State grant funds.

Forest Management and Timber Resources

The Roseburg District manages approximately 425,000 acres of land located mostly in Douglas County and in the Umpqua River Basin. Under the Northwest Forest Plan (NFP) and the Roseburg District Resource Management Plan (RMP), approximately 81,800 acres (or 19% of the Roseburg District land base) are available for scheduled timber harvest. The NFP and the RMP provide for a sustainable timber harvest, known as the Allowable Sale Quantity (ASQ), from Roseburg District administered public lands of 45 million board feet (MMBF) annually.

To meet the ASQ commitment, the Roseburg District does timber sale planning including preparing an environmental analysis, and conducts timber sale preparation which includes cruising, appraising and contract preparation. Timber sales are then advertised and auctioned at oral auctions. When timber sales become active, contract administration is conducted to ensure contract compliance. Importantly, the Roseburg District is investing in the future of the forests through forest development and reforestation activities.

The Roseburg District was unable to offer the full ASQ level of timber sales required under the RMP in fiscal year 2004, primarily due to the inability to consult on actions likely to adversely affect listed fish species. The district offered 7 timber sales for a combined volume of 23.3 MMBF. All of these sales were commercial thinnings except for one fire salvage sale. The district also sold negotiated timber sales for a combined volume of 1.3 MMBF. The value of all timber sold in fiscal 2004 was \$4,081,160.50. The monies associated with timber sales are paid as timber is harvested over the life of the contract, which is three years or less. Timber sale receipts collected by the Roseburg District in fiscal year 2004 from active harvesting totaled \$2,187,155.04 from Oregon and California Railroad, Coos Bay Wagon Road and Public Domain Lands.

Under Section 15 of the Small Business Act (15 U.S.C. 631) BLM is required sell a certain percent of advertised timber sale volume to businesses with less than 500 employees. That percent is currently calculated at 56% for the Roseburg District. When the requisite percent is not achieved through the normal bidding process, a requirement is "triggered" to set aside timber sales to offer exclusively to small businesses. The Roseburg District was triggered for the first half of fiscal year 2004. One of the three sales sold at auction during the first half of the fiscal year was set-aside for small business. Small business concerns also purchased one of two open bid sales, resulting in the district not being triggered in the second half of fiscal year 2004.

Tables 13 to 16 below provide a summary, by land use allocation and harvest type, of timber sale volumes and acres of timber harvested since the signing of the NFP. Table 17 provides a more detailed annual display of harvest by volume and acreage.

Silviculture Activities

Data is for contracts awarded after October 1, 1995. Data is displayed by fiscal year of contract award and does not necessarily correspond with the year the project was actually accomplished.

Brush field Conversion - To date no acres have undergone conversion. It is not expected that any attempt would be made unless herbicides were available as a conversion tool. A vegetation EIS that would allow the use of herbicides for control of competing vegetation for forest management is currently being prepared at the national level.

Site Preparation (FIRE) - The number of acres prepared with prescribed fire, both broadcast treatment and pile treatment is about 34% of planned. A continued decline in

Table 13. Summary of Volume Sold

	FY95-98 ¹	FY99-04	Total FY95-04	Declared ASQ FY95-04 ²
Sold ASQ/Non ASQ Volume (MMBF)				
ASQ Volume - Harvest Land Base	144.9	56.3	201.2	450.0
Non ASQ Volume - Reserves	15.2	10.8	26.0	n/a
Total	160.1	49.3	209.4	n/a
Sold Unawarded (as of 09/30/04)³ ASQ/Non ASQ Volume (MMBF)				
ASQ Volume - Harvest Land Base	54.4	4.9	59.4	n/a
Non ASQ Volume - Reserves	8.0	0.4	8.4	n/a
Total	62.4	0.0	62.4	n/a

¹ Third Year Evaluation - Figure V12-1 plus volume sold in FY95 prior to signing of the RMP

² Declared annual ASQ times 10.

³ Sold Unawarded sales which have been resold but are still Unawarded tallied for original FY sold

Table 14. Volume and Acres Sold by Allocations

	FY95-98 ³	FY99-04	FY95-04	Total	Decadal Projection
ASQ Volume (MMBF) (Harvest Land Base)					
Matrix	138.6	38.0	176.7	424.0	
AMA	6.3	0.4	6.7	29.9	
ASQ Acres (Harvest Land Base)					
Matrix	5541	2147	7688	13,600	
AMA	358	41	399	900	
Key Watershed ASQ Volume (M MBF) (Harvest Land Base)					
Key Watersheds	39.6	5.8	45.5	87.7	

³ Third Year Evaluation - Figure 12-7 or 12-8 plus volume sold in FY95 prior to signing of the RMP

Table 15. Sale Sold by Harvest Types

	FY95-98 ⁵	FY99-04	FY95-04 Total	Decadal Projection
ASQ Volume (MMBF) (Harvest Land Base)				
Regeneration Harvest	115.1	7.1	122.2	435.3
Commercial Thinning & Density Management	17.1	42.5	59.6	18.6
Other	10.0	4.2	14.2	0.0
Total	142.3	44.7	187.0	450.0
ASQ Acres (Harvest Land Base)				
Regeneration Harvest	3127	199	3326	11991
Commercial Thinning & Density Management	1613	2892	4505	2499
Other	780	322	1102	n/a
Total	5520	2701	8231	14490
Reserve Acres				
Late-Successional Reserves	659	383	1042	n/a
Riparian Reserves	533	730	1263	n/a
Total	1192	1113	2305	n/a

⁵ Third Year Evaluation Figure 12-4 plus volume sold in FY95 prior to signing of the RMP⁶ Third Year Evaluation Section 12-F - Harvest from Reserves plus acres sold in FY95 prior to signing of the RMP

Table 16. Sale Sold by Harvest Types

ASQ Volume (MMBF) (Harvest Land Base)	FY95-98 ¹	FY99-03	FY95-03 Total	Decadal Projection
Regeneration Harvest	115.1	7.1	122.2	435.3
Commercial Thinning & Density Management	17.1	25.9	43.0	18.6
Other	10.0	3.1	13.1	0.0
Total	142.3	36.1	178.4	450.0
ASQ Acres (Harvest Land Base)	FY95-98 ¹	FY99-03	FY95-03 Total	Decadal Projection
Regeneration Harvest	3127.0	199.0	3326.0	11991.0
Commercial Thinning & Density Management	1613.0	1701.3	3314.3	2499.0
Other	780.0	276.2	1056.2	
Total	5520.0	2176.5	7706.5	14490.0
Reserve Acres	FY95-98 ²	FY99-03	FY95-03 Total	
Late-Successional Reserves	659.0	364.1	1023.1	
Riparian Reserves	533.0	294.0	827.0	
Total	1192.0	658.1	1850.1	

¹Third Year Evaluation Figure 12-4 plus timber sales sold in FY95 prior to signing of the RMP (source TSIS)²Third Year Evaluation Section 12-F - Harvest from Reserves plus timber sale acreage sold in FY95 prior to signing of the RMP (source TSIS)

Table 17. Roseburg District Timber Sale Volume and Acres.

MIBF	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995-2004 Total	1995-2004 Annual Average	RMP/EIS Assumed Annual Average	Percent of Assumed Average
Total Timber Sale Volume	17,624	45,993	51,783	44,726	10,135	1,473	2,723	11,755	23,192	24,604	234,006	26,001	49,500	53%
Matrix Timber Sales	17,004	41,055	42,692	37,887	9,416	1,190	2,071	8,754	16,591	17,847	194,508	21,612	45,000	48%
GFMA Regeneration Harvest	13,285	32,172	27,575	24,786	1,055	-39	0	0	2,311	-1	101,145	11,238		
GFMA Commercial Thinning	1,657	3,016	2,907	3,451	4,022	166	1,794	4,307	7,332	12,645	32,164	3,574		
GFMA Salvage & ROW	323	1,817	3,516	1,446	438	477	277	358	517	1,052	10,076	1,120		
C/D Block Regeneration Harvest	1,130	629	5,123	5,869	1,353	0	0	0	2,367	5	16,476	1,831		
C/D Block Commercial Thinning	457	2,978	3,455	1,739	2,059	166	0	3,755	3,899	3,901	22,434	2,493		
C/D Block Salvage	153	442	117	597	488	586	0	334	166	246	3,102	345		
RR Density Management	24	2,424	2,175	811	395	55	2	868	2,548	6,103	15,405	1,712		
RR Salvage	245	55	3	236	140	18	1	17	0	0	715	79		
LSR Density Management	63	102	1,728	5,559	151	0	0	1,724	3,318	14	12,861	1,429		
LSR Salvage	204	1,162	266	123	33	210	595	36	717	559	3,701	411		
Total All Reserves	536	3,743	4,172	6,728	719	282	598	2,645	6,583	6,676	32,683	3,631	4,500	81%
Key Watersheds Matrix Timber Sales	25	8,439	18,392	12,767	2,351	681	791	201	1,811	1,492	46,950	5,217	8,700	60%
Little River AMA All Harvest Types	0	1,033	4,682	30	0	0	0	294	18	0	6,057	673	4,600	15%
Little River AMA Salvage	83	162	236	81	0	0	54	63	0	81	691	77		
Total AMA Timber Sales	83	1,195	4,918	111	0	0	54	357	18	81	6,747	750		
Acres														
Total Regeneration Harvest	386	906	836	800	56	0	0	0	146	0	3,130	348	1,190	29%
Total Commercial Thinning	113	426	568	536	411	2	87	457	858	1,190	4,648	516	250	207%
Total Density Management	2	216	301	483	38	0	0	179	372	436	2,041	227		
GFMA Regeneration Harvest	354	866	713	649	20	0	0	0	65	0	2,667	296		
GFMA Commercial Thinning	69	197	267	361	209	2	87	250	560	939	2,941	327		
GFMA Salvage & ROW	30	47	289	125	16	16	13	29	51	57	654	73		
C/D Block Regeneration Harvest	32	40	123	151	36	0	0	0	81	0	463	51		
C/D Block Commercial Thinning	44	229	301	175	203	0	0	173	296	251	1,673	186		
C/D Block Salvage	20	35	25	52	16	4	0	12	10	7	179	20		
RR Density Management	0	216	188	97	38	0	0	60	183	436	1,218	135		
RR Salvage	8	4	0	20	9	1	1	2	0	0	45	5		
LSR Density Management	2	0	113	386	0	0	0	119	189	0	823	91		
LSR Salvage	21	96	33	8	2	9	18	1	26	19	219	24		
Total All Reserves	31	316	334	511	49	10	19	183	398	455	2,305	256		
Little River AMA Regeneration Harvest	0	0	68	0	0	0	0	0	0	0	68	8		
Little River AMA Commercial Thinning	0	94	134	0	0	0	0	34	2	0	264	29		
Little River AMA Salvage	10	9	36	7	0	0	2	3	0	5	67	7		

GFMA, C/D Block & AMA Commercial Thinning totals include all intermediate harvest types

LSR & RR Density Management totals include all intermediate harvest types

Salvage totals also include timber sales designated as Right of Way (ROW) harvests and SFP Wood Products

Figure 1. Annual Timber Sale Volumes Compared to RMP Projected Harvest Level

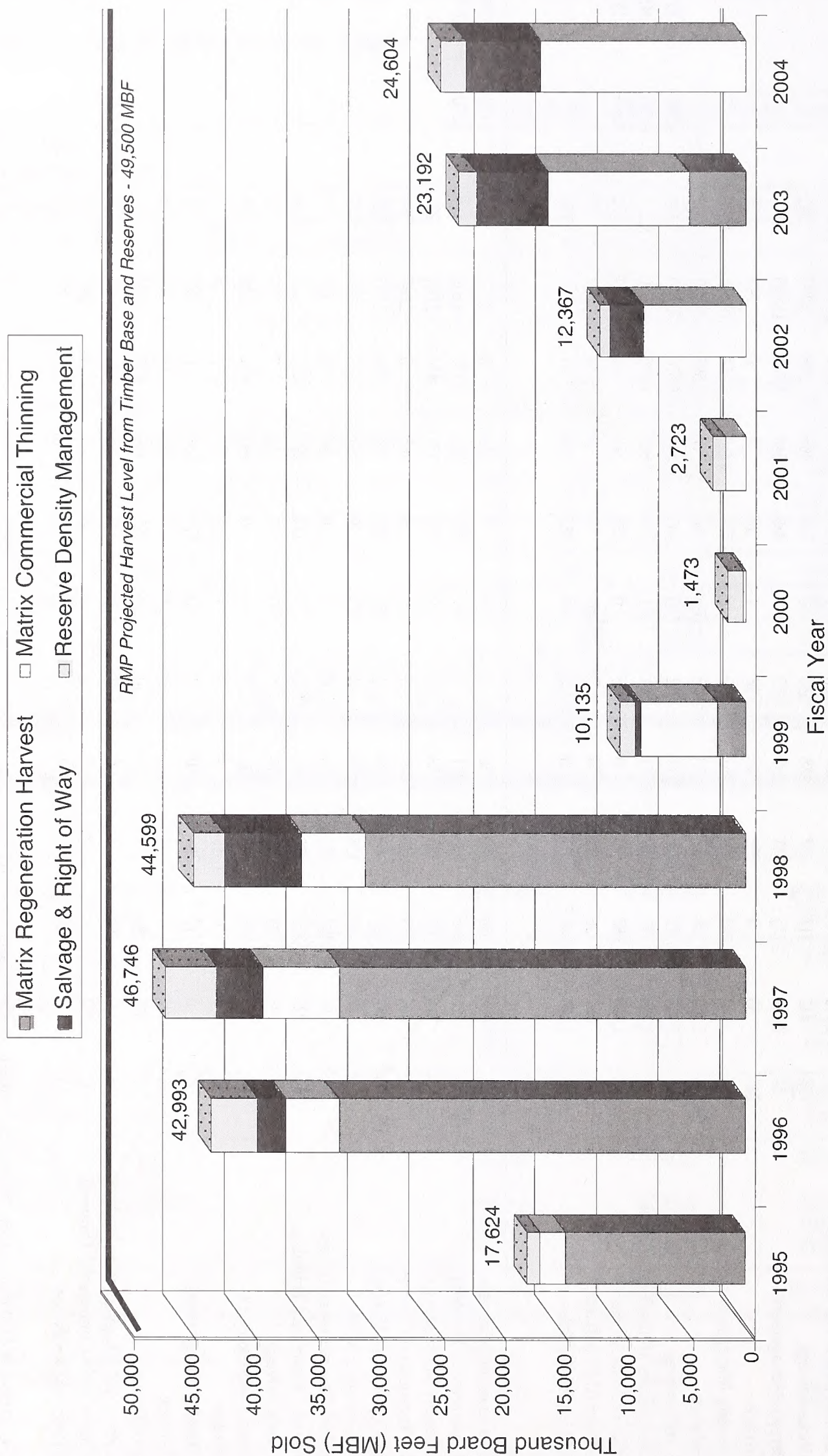
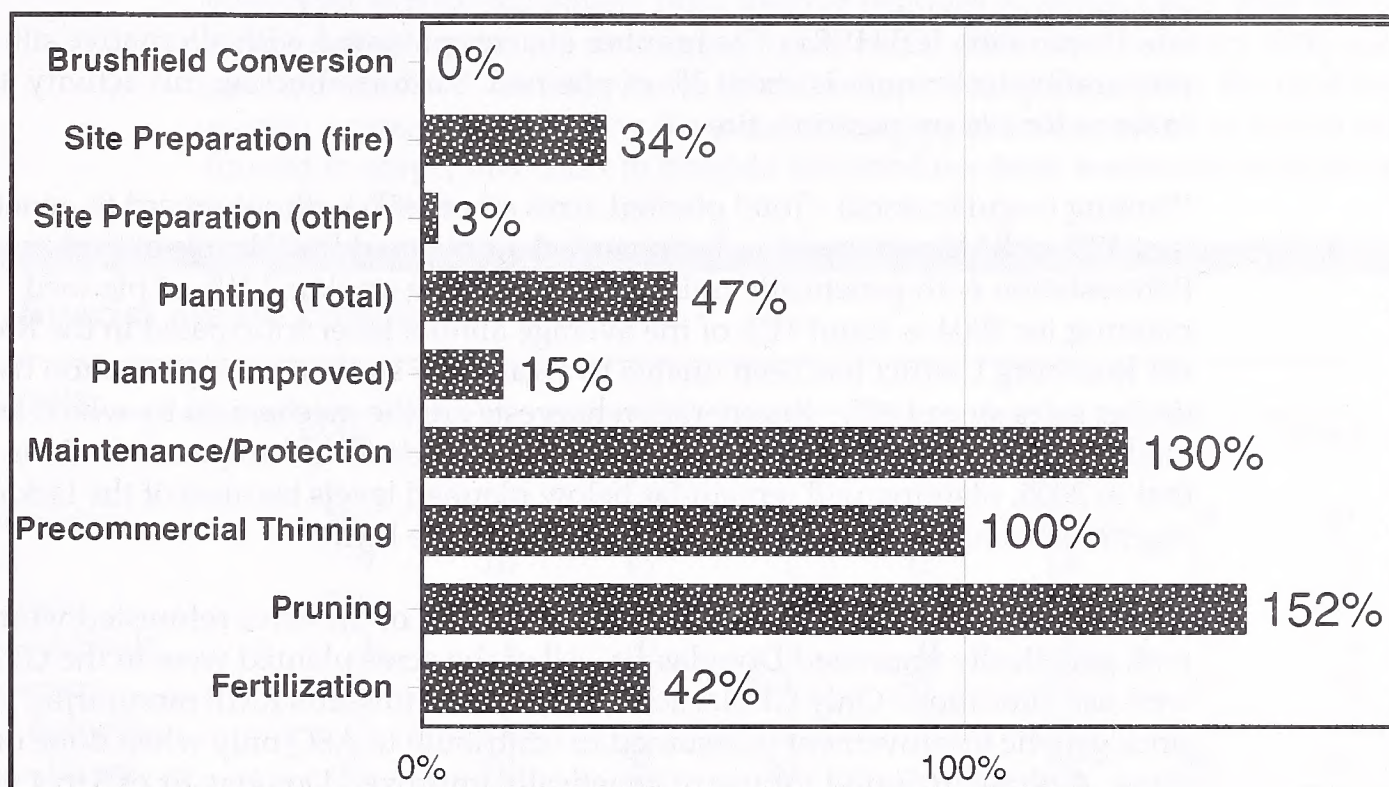


Figure 2. Forest Development Accomplishments as a Percent of RMP Assumption.**Table 18. Roseburg District Forest Development Activities.**

	FY 96-03	FY 04	Totals to Date	Average Annual	Planned Annual	Differences Actual-Planned	Accomplishments as a % of RMP Assumptions
Brushfield Conversion	0	0	0	0	15	(135)	0%
Site Preparation (fire)	2,591	0	2,591	288	840	(4,969)	34%
Site Preparation (other)	13	0	13	1	50	(437)	3%
Planting (total)	5,859	159	6,024	669	1,430	(6,846)	47%
Planting (regular)	4,308	116	4,466	496	290	1,856	171%
Planting (improved stock)	1,533	43	1,576	175	1,140	(8,684)	15%
Maintenance/Protection	9,625	134	9,687	1,076	830	2,072	130%
PCT	32,107	4,030	35,123	3,903	3,900	23	100%
Pruning	4,519	1,485	6,292	699	460	2,152	152%
Fertilization	5,504	0	5,504	612	1,440	(7,456)	42%
Reforestation Surveys	94,977	10,321	105,298	11,700	11,750	(452)	100%

Data is for forest development contracts awarded after October 1, 1995. Data is displayed by fiscal year of contract award and does not necessarily correspond with the year the project was actually accomplished. Percent accomplishments are annualized based on nine years of implementation. Numbers in parentheses are negative numbers.

trend is likely to continue due to less than expected levels of regeneration harvest and other resource concerns.

Site Preparation (OTHER) - The number of acres prepared with alternative site preparation techniques is about 3% of planned. Factors affecting this activity are the same as for site preparation, fire.

Planting (regular stock) - Total planted acres since 1995 without regard to genetic quality is at 47% of RMP assumed levels due to lack of planned RMP levels of timber harvest. Reforestation with genetically unimproved planting stock is 171% of planned. Total planting for 2004 is about 11% of the average annual level anticipated in the RMP because the Roseburg District has been unable to award any significant regeneration harvest timber sales since 1997. Regeneration harvests are the mechanism by which areas are made available for planting to start new forest stands for subsequent rotations. It is likely that in 2005, planting will remain far below planned levels because of the lack of the regeneration harvests which were anticipated in the RMP.

Planting (improved stock) - In fiscal year 2004, 18% of the acres reforested were planted with genetically improved Douglas-fir. All of the acres planted were in the GFMA land use allocation. Only GFMA acres are counted towards RMP monitoring goals since genetic improvement is assumed to contribute to ASQ only when done on GFMA acres. A phase in period for use of genetically improved Douglas-fir of 3 to 4 years was assumed to allow for older sales outside the GFMA land use allocation to be reforested and for seed orchards to reach production. However, planning for production of genetically improved stock has proved difficult due to the uncertainty of timber harvest timing. Seed must be sown one to three years prior to actual need. Due to decline in timber harvest overall and uncertainty in harvest timing, it is likely that this target will be approximately 20-30% of RMP levels by the end of the decade.

Maintenance/Protection - acres of maintenance/protection treatments is currently 130% of planned levels. It is anticipated that at this rate, assumed RMP levels would be exceeded by 10-20%.

Precommercial Thinning (PCT) - currently PCT is at 100% of planned RMP levels. It is expected that at a minimum, RMP goals will be met or slightly exceeded over the decade.

Pruning - Currently pruning accomplishments are 152% of assumed RMP levels. Depending on funding this trend could continue. It is expected that RMP levels will be exceeded by 50 to 60% by decade's end.

Fertilization - Currently fertilization accomplishments are about 42% of assumed RMP levels. Implementation of fertilization has been delayed by an administrative appeal of the proposed action. It is expected that accomplishments will be between 30-40% of planned RMP levels by decades end.

Forest development, reforestation, silvicultural and timber stand improvement practices were accomplished in fiscal year 2004 through contracts valued at approximately \$763,000.

Special Forest Products

In addition to the advertised timber sales described above, the district sold a variety of special forest products as shown in Table 20. The sale of special forest products generally follow the guidelines contained in the Oregon/Washington Special Forest Products Procedure Handbook, H-5400-2. There are no estimates or projections in the RMP ROD or FEIS that need to be compared to the sold quantities shown.

In general, the Roseburg District has been able to meet public demand for special forest products, with the exception of firewood for home heating. Firewood has been generated almost exclusively from logging residues in recent years. With the reduction in regeneration harvest the district has experienced, there has been very little opportunity to provide firewood. In response to this situation, during Fiscal 2004 the Roseburg District started a program of creating firewood cutting areas independent of timber sales. While limited in scope, this effort to provide firewood has been successful to the extent it has been implemented.

Table 19. Special Forest Products

No. of Contracts									
	FY96	FY97	FY98	FY99	FY00	FY01	FY 02	FY03	FY04
Product									
Boughs-Coniferous	183	104	96	80	47	50	75	61	49
Burls & misc.	9	10	15	1	15	14	11	0	0
Christmas Trees	266	245	217	159	231	283	219	191	201
Edibles & Medicinals	3	3	0	1	0	4	5	6	0
Floral & Greenery	120	128	89	161	57	65	33	74	142
Mosses - Bryophytes	3	4	4	0	0	11	0	1	1
Mushrooms - Fungi	56	50	25	20	2	55	55	99	66
Seeds and Cones	0	0	0	0	0	0	0	1	0
Transplants	7	2	1	1	28	1	4	2	1
Wood Products/ Firewood	210	460	197	219	281	250	102	118	206
Totals	857	1,006	640	722	661	733	504	553	766

Quantity Sold

	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY 03	FY04
Product									
Boughs-Coniferous (lbs)	164,850	96,700	76,600	67,500	38,002	47,100	96,100	96,510	61,000
Burls & misc. (lbs.)	12,900	20,200	35,275	300	24,550	29,300	22,000	667	0
Christmas Trees (ea.)	266	245	217	159	231	283	219	191	201
Edibles & Medicinals (lbs.)	1,578	1,800	0	200	0	2,000	3,800	39,640	0
Floral & Greenery (lbs.)	69,120	83,100	48,525	96,136	32,300	31,450	15,000	33,950	1,460
Mosses - Bryophytes (lbs.)	6,333	1,998	0	1,833	0	30,500	0	300	10
Mushrooms - Fungi (lbs.)	1,572	2,524	1,048	875	1,200	1,676	2,898	4,852	8,830
Seeds and Cones (bushels)	0	0	0	0	0	0	0	75	0
Transplants	560	450	20	140	50	10	92	44	20
Wood Products/ Firewood (bf)	267,960	600,574	352,729	63,944*	214,496*	59,636*	25,224*	22,714*	421,500

* cu. ft.

Value \$

	FY96	FY97	FY98	FY99	FY00	FY01	FY02	FY 03	FY04
Product									
Boughs-Coniferous	3,297	1,948	1,572	1,350	780	993	2,883	2,954	1,830
Burls & misc.	505	816	1,411	12	994	1,014	699	20	0
Christmas Trees	1,375	1,225	1,085	795	1,155	1,415	1,095	955	1,005
Edibles & Medicinals	70	72	0	10	0	100	430	1,116	0
Floral & Greenery	3,458	4,019	3,305	4,745	1,383	2,051	1,320	3,129	6,364
Mosses - Bryophytes	150	60	0	5	0	1,220	0	12	0
Mushrooms - Fungi	393	631	262	218	300	439	725	1,222	2,207
Seeds and Cones (bushels)	0	0	0	0	0	0	0	19	0
Transplants	480	350	5	14	20	10	45	20	10
Wood Products/ Firewood	49,111	74,436	73,901	53,230	36,151	19,366	21,999	22,522	66,351
Totals	58,839	\$83,557	\$81,541	\$60,379	\$40,783	\$26,608	\$29,196	\$31,969	\$77,777

Noxious Weeds

The Roseburg District continues to survey BLM administered land for noxious weeds by conducting noxious weed inventories and pre-project surveys. In all, 3,284 acres were examined for the presence of noxious weeds, which includes over 612 miles of roads. Infestations of high priority noxious weeds are reported to the Oregon Department of Agriculture (ODA). The District works with ODA and Douglas Soil and Water Conservation District (DSWCD) to control those infestations. Work continued in the Cox Creek Cooperative Weed Management Area (CWMA) where 1820 acres of inventory were reported. The primary financial support for work in the CWMA is Title II funds, although additional funds and in kind work, were supplied by cooperating land managers and partners.

The RMP identified two objectives for noxious weeds. The first objective of containing or reducing weed infestations, resulted in manual, mechanical, and chemical control of weeds on 2308 acres. Of those, Title II funding contributed to the weed control on 1430 acres in the CWMA, and 230 acres of weeds hand pulled or cut by Oregon Youth Conservation Corps and Northwest Youth Corps. No additional biological control agents were released within the Roseburg District; however, they are widely established on 14 noxious weed species throughout the Roseburg District. They are present on: bull thistle, Canada thistle, gorse, Italian thistle, meadow knapweed, milk thistle, poison hemlock, purple loosestrife, rush skeletonweed, Scotch broom, slender-flowered thistle, St. John's wort, tansy ragwort and yellow starthistle. Once released, biological control agents reproduce and spread. Although monitoring has been done to determine the survival and establishment of biological control agents, no efforts have been made to quantify the extent or level of control achieved by these agents.

The second objective of preventing the introduction and spread of weeds resulted in incorporating weed inventory, treatment and monitoring into other projects on the District and developing partnerships. The results of these efforts are included in the figures above. BLM presented education and outreach programs to improve the understanding of noxious weeds and prevent the spread and reduce introduction to both children and adults.

Table 20. Noxious Weed Control Summary.

<u>Treatment</u>	<u>Species</u>	<u>FY03 Acres</u>	<u>FY04 Acres</u>
Manual/Mechanical	Black locust	1	0
	English hawthorn	23	0
	English ivy	2	0
	French broom	12	12
	Gorse	1	1
	Himalayan blackberry	96	149
	Japanese knotweed	2	1
	Meadow knapweed	1	0
	Malta starthistle	29	15
	Parrot feather	1	0
	Purple loosestrife	1	1
	Rush skeletonweed	16	0
	Scotch broom	79	80
	Spanish broom	2	1
	Sulfur cinquefoil	1	0
	Tansy ragwort	0	0
	Thistles (Italian, Bull, Milk)	29	11
	Yellow starthistle	99	100
Chemical	Diffuse knapweed	3	3
	Gorse	1	1
	Himalayan blackberry	11	10
	Portuguese broom	252	187
	Scotch broom	839	481
	Spotted knapweed	4	4
	Thistles (Canada, Bull, Italian)	1	1
	Yellow starthistle	1	2
	Woolly distaff thistle	1	0

Fire and Fuels Management

Special care is taken to ensure that all prescribed fire projects are done in compliance with the Oregon Smoke Management Plan.

Fire/Fuels Management -	June to September 1995
Prescribed Fire:	332 acres
On district wildfires:	9 fires for a total of 1.95 acres - all lightning caused
Off district wildfires:	13 district personnel accepted assignments to 12 fires.
Fire/Fuels Management -	1996
Prescribed Fire:	304 acres
On district wildfires:	21 fires for a total of 15.17 acres - 17 caused by lightning, 4 human caused
Off district wildfires:	57 district personnel accepted assignments to 35 fires.
Fire/Fuels Management -	1997
Prescribed Fire:	872 acres
On district wildfires:	4 fires for a total of 1.61 acres; all were human caused.
Off district wildfires:	No district personnel were assigned to any off district fires in 1997. One employee was detailed to the Redmond Hot Shots during 1997.
Fire/Fuels Management -	1998
Prescribed Fire:	161 acres
On district wildfires:	21 fires for a total of 13.27 acres - 19 were lightning caused and 2 were human caused
Off district wildfires:	28 district personnel accepted assignments to 27 wildfires
Fire/Fuels Management -	1999
Prescribed Fire:	198 acres
On district wildfires:	3 fires for a total of 3.57 acres - 2 lightning caused, and 1 human caused
Off district wildfires:	66 district personnel accepted assignments to 29 wildfires
Fire/Fuels Management -	2000
Prescribed Fire:	530 acres
On district wildfires:	4 fires for a total of 2.37 acres - 2 lightening caused and 2 human caused
Off district wildfires:	73 people, 11 engines, 5 Probeye Irs were assigned to 43 wildfires
Fire/Fuels Management -	2001
Prescribed Fire:	372 acres (assisted the Umpqua National Forest / Tiller Ranger District with the loan of 1 probeye and Coos Bay BLM with 1 Type 3 engine)
On district wildfires:	11 fires for a total of 2.76 acres - 9 were lightning caused and 2 were human caused (Lightning - 2.65 acres, Human - .11 acres)
Off district wildfires:	143 people, 25 engines, 12 Probeye / Palm Ir's, and 3 pumps; 10 cubies and 4 pickups were assigned to 43 wildfires.
Fire/Fuels Management -	2002
Prescribed Fire:	1255.1 acres (29 of those acres were mechanically treated) (Sent 2 engines with 3 people to assist the Umpqua National Forest / North Umpqua Ranger District prescribed fire program and 1 engine with 2 people to assist the Lakeview Interagency Fire Center prescribed fire program.)

On district wildfires: 32 fires for a total of 271.72 acres - 21 were lightning caused, 9 were human caused and 2 were misc. (Lightning = 195.95 acres, Human = 3.67 acres, Misc. = 82.1 acres)

Off district wildfires: 178 personnel, 2 mechanics service vehicles, 5 AD's, 1 dump truck, 4 Annuitants, 2 vans, 18 engines, 3 Palm IR's, 8 water tenders, 10 pumps, 3 front end loaders, 10,000 + feet of hose and 4 road graders were assigned to 41 wildfires

Fire/Fuels Management - Total, June 1995-September 2002

Prescribed Fire: 4024 acres

On district wildfires: 104 fires for a total of 315 acres - 80 lightning caused and 24 human caused

Off district wildfires: 538 district personnel accepted assignments to 189 wildfires across the nation.

Fire/Fuels Management - Fiscal year 2003

Prescribed Fire: 641 acres

Mechanical Treated Areas: 38 acres

1 engine, 2 people and 1 Palm IR assisted the Umpqua National Forest / North Umpqua Ranger District prescribed fire program.

On district wildfires: 5 fires for a total of 82.83 acres
3 - human caused for 82.72 acres
2 - lightning caused for .11 acres

Off district incidents: The following were assigned to 41 incidents:
88 district personnel, 7 engines, 2 AD's, 4 Palm IR's and 5 Rehired Annuitants

Incidents personnel were dispatched were comprised of wildfires, the Exotic Newcastle Disease outbreak and the Columbia shuttle disaster.

Fire/Fuels Management - Fiscal year 2004

Prescribed Fire: 752 acres

Mechanical Treated Areas: 89 acres

(2 Roseburg District engines with 4 district personnel assisted Prineville District BLM with two prescribed burns)

Wildfires & Incidents:

On district wildfires: 4 fires for a total of 1768 acres
3 - human caused for 1767.90 acres
1 - lightning caused for .10 acres

Off district incidents: The following were assigned to 38 incidents:

87 district personnel 3 engines
8 AD's 4 Palm IR's

Incidents personnel were dispatched to were comprised of wildfires, and hurricane support in Florida, Georgia and Alabama.

The Roseburg District had 52 red-carded district personnel, and 4 AD's, for the FY 2004 season and these went to the following:

State	Redcarded Personnel	AD's	Engines	Palm IR's
Alabama	1			
Alaska	9	1		
Arizona	1	1		
California	12		1	
Florida	2			
Georgia	3			
Oregon	18	2	1	2
Utah	2			
Washington	39	4	1	2

Access and Rights-of-Way

Because public and private lands are intermingled within the district boundary, each party must cross the lands of the other in order to access their lands and resources such as timber. Throughout most of the district this has been accomplished through O&C Logging Road Right-of-Way Permits and O&C Reciprocal Logging Road Rights-of-Way Agreements with neighboring private landowners. The individual agreements and associated permits (a total of approximately 140 on the district) are subject to the O&C regulations which were in effect when they were executed. The current regulations are found at 43 CFR 2812. Additional rights-of-way have been granted or renewed under Title V of the Federal Land Policy and Management Act for the construction of driveways, utility lines for servicing residences, domestic and irrigation water pipelines, legal ingress and egress, and communication sites.

Table 21 reflects the actions that support the access and right-of-way program on the District.

Roads

The Roseburg District has approximately 3,000 miles of roads which are controlled or improved by the BLM. Timber sales are often designed such that the purchasers have responsibility for maintaining those BLM roads that are used in execution of the contract. In addition, road maintenance is accomplished on a regular basis by the district road maintenance crew.

Table 21. Access and R/W Five Year Summary.

Fiscal Year	New O&C Permits Issued	New FLPMA ROW Grants Issued	Amendments to O&C Permits Approved	Assignments To O&C Permits Approved	Easements Acquired
2000	16			7	
2001	3			5	
2002	7	6	27	4	
2003	4	1	13	6	0
2004	10	6	8	3	1
Totals	40	13	48	25	1

The Roseburg District road maintenance crew maintained approximately 700 miles of road and 10 bridges in fiscal year 2004. In addition, the road maintenance crew completed over 70 special requests from the resource areas, subsoiling and 170 miles of roadside brushing, chip sealed 36 miles of road, 7,000 tons of hot mix and 20,000 yards of rock for road maintenance. The road maintenance crew spent six weeks clearing BLM roads of trees blown over in a snow storm.

Energy and Minerals

The Formosa Abandoned Mine Land (AML) site, an abandoned copper and zinc mine located at Silver Butte, encompasses approximately 76 acres of privately owned property and 2 acres of BLM managed lands in steep mountainous terrain. The mine originally operated in the early 1900's, with the majority of production occurring between 1927 and 1933. The Formosa mine was then reopened by Formosa Explorations, Inc. in 1990 and produced copper and zinc ore at a rate of 350-400 tons per day between 1990 and 1993. The Oregon Department of Geology and Minerals Industries (DOGAMI) issued a permit for the mining activities and required Formosa to establish a reclamation bond prior to beginning operations. The mine closed in 1994 and conducted mine reclamation activities using a bond of one million dollars. Formosa spent most of the bond money and satisfied most of DOGAMI's reclamation requirements then declared bankruptcy. In the winter of 1995-1996, the drainfield from the adits failed and began releasing acid mine drainage (AMD) to Middle Creek and South Fork Middle Creek.

Post reclamation monitoring of South Fork Middle Creek and Middle Creek indicated that 18 stream miles have been impacted from metals contamination associated with AMD (primarily cadmium, copper, lead and zinc) from the Formosa mine site. Based on this situation, the DEQ and BLM have determined that this project is a high priority for further action.

Results from investigations completed from 1994 to 2000 indicated that the concentrations of dissolved metals found in Middle Creek and South Fork Middle Creek pose an imminent threat to aquatic life including anadromous fish.

In fiscal year 2000, the Roseburg District issued an action memorandum to approve Removal Actions at the Formosa AML site by the Department of Environmental Quality. The Roseburg District has the authority for this action under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA).

The DEQ, the lead agency in the clean-up at the Formosa AML site, initiated further investigation in November 2001 to supplement the Remedial Investigation performed by the BLM in 2000. The field investigation portion of the supplemental Remedial Investigation, completed in June 2002, included extensive monitoring by BLM and DEQ. The DEQ, its contractor Hart Crowser, and the BLM have analyzed the data and Hart Crowser has prepared a Supplemental Remedial Investigation Report. Results of the data analysis indicate that groundwater from the mine workings is the primary contributor of metals to both Middle Creek and the South Fork of Middle Creek.

The BLM and DEQ decided to complete the RI/FS for the site prior to completing any additional site measures. The final draft RI/FS was published in December 2004.

The Middle Creek watershed will continue to be monitored in 2005.

During fiscal year 1996-1998 work was performed in rehabilitation of Middle Creek and the Mighty Fine Mine.

Table 22. Roseburg District Mining Related Activities.

	Fiscal Year								
	1996	1997	1998	1999	2000	2001	2002	2003	2004
Plan of Operation	1	0	0	0	0	0	0	0	0
Mining notices received & Reviewed	11	1	2	5	5	0	0	0	1
Mining claim compliance inspections	106	116	48	36	22	22	20	20	20
Notices of non-compliance issued	8	0	0	0	0	0	0	0	0
Community pit inspections	54	47	35	22	39	95	20	20	20

Land Tenure Adjustments

There was one land sale of 0.13 acres adjacent to the Sutherlin Road Maintenance Shop to the county for the purpose of widening the Calapooya Road.

Unauthorized Use

The public lands continue to see a large number of unauthorized uses (primarily dumping of household garbage). Twenty-one sites were cleaned up. Two timber trespass cases were resolved.

Hazardous Materials

The BLM approach to hazardous materials management on public lands (1) seeks to prevent the generation and acquisition of hazardous materials; (2) is intended to reduce the amounts and toxicity of wastes generated; (3) provides for the responsible management of waste materials in order to protect the natural resources, as well as the people who live, work on and use BLM administered lands; and (4) provides for aggressive cleanup and restoration of BLM lands that are contaminated by hazardous waste materials.

In 2004, the Roseburg District responded to a grease dumping incident, a paint dumping incident and a methamphetamine dumping incident.

All hazardous materials incidents on public lands are handled in accordance with the Roseburg District Contingency Plan for Hazardous Materials Incidents, which is consistent with Federal and State regulations. The following table shows the number of Incidents requiring response for fiscal year 1999 through fiscal year 2004.

Table 23. Hazardous Material Incidents Requiring Response

Fiscal Year	Incidents Requiring Response
1997	2
1998	3
1999	3
2000	2
2001	1
2002	2
2003	3
2004	3

Coordination and Consultation

Federal Agencies

During the period of June 1995 through September 2004, significant cooperation and coordination between federal agencies has taken place. There is ongoing participation in the Southwest Oregon Provincial Executive Committee and Southwest Oregon Provincial Advisory Committee. There have been many very significant and involved interagency efforts that have included the Roseburg District BLM, US Fish and Wildlife Service, US Forest Service, National Marine Fisheries Service, Environmental Protection Agency, US Geological Survey, National Resource Conservation Service, and Bonneville Power Administration on projects such as watershed analysis, late-successional reserve assessments, the Little River Adaptive Management Area, water quality projects, transmission lines, etc. In addition, personnel from several of these agencies have been involved in project level planning, conflict resolution and Section 7 consultation under the Endangered Species Act. Significant federal agency coordination and cooperation has occurred through the Regional Interagency Executive Committee and the Regional Ecosystem Office established under the Northwest Forest Plan. Under the Northwest Forest Plan, interagency cooperation and coordination has proceeded at an unprecedented level.

State of Oregon

The Roseburg District has continued its long term working relationship with Oregon Department of Forestry, Oregon Department of Fish and Wildlife, State Historic Preservation Office, and the Oregon Department of Environmental Quality. These relationships cover diverse activities from timber sale planning to fish habitat inventory, from water quality monitoring to hazardous material cleanup and air quality maintenance to wildfire suppression. The development of the North Bank Habitat Management Area environmental impact statement was accomplished in cooperation with Oregon Department of Fish and Wildlife.

Counties

The Roseburg District is located primarily within Douglas County, with a small amount of acres of Roseburg District BLM-administered lands in Lane County and Jackson County. There is frequent communication between the Roseburg District and county commissioners and other county staff. This communication involves BLM proposed projects, county projects, which may affect county lands, water quality issues and other issues. County commissioners receive copies of all major publications, project updates, and project proposals.

Cities

The Roseburg District has memorandums of understanding with the cities of Drain, Riddle, and Canyonville. The objective of these agreements is to maintain the best water quality through Best Management Practices. A Special Land Use Permit has been issued to the City of Myrtle Creek for watershed protection which includes the city intake and the adjoining 190 acres.

Tribes

Tribes are represented on the Southwest Oregon Provincial Interagency Executive Committee which coordinates activities within the province. The district contacts tribes directly for the coordination of many projects.

Watershed Councils

The Roseburg District is involved and supports the Umpqua Watershed Council and is represented on the Council's Technical Advisory Committee. The Council is involved in projects such as the Umpqua Basin Assessment, and fisheries and water quality issues.

Other Local Coordination and Cooperation

The Roseburg District has a partnership with Umpqua Training and Employment to sponsor students from Wolf Creek Job Corps in their "Mentor" program. The district has hosted Resource Apprentices funded by Umpqua Training and Employment. The district has participated as one of six partners with the Oregon Youth Conservation Corps project. The district has coordinated and contracted for work provided by the Northwest Youth Corps. Other partnerships include a Girl Scouts day camp at Millpond Recreation Site, hosts to members of Experience International and Apprentice in Science and Engineering.

The district developed and activated a significant telephone dial-up information line offering information to the public regarding fire levels and closures, road closures, recreation, campgrounds, pavilions, the Little River Adaptive Management Area, fire wood lots, timber sales, the Annual Program Summary and Monitoring Report, and seasonal programs such as Earth Day activities and Christmas tree cutting. The Roseburg District has sponsored Public Lands Day in which 26 partners and 360 volunteers participated.

Research

In October 1995, BLM management identified Northwest Forest Plan implementation as the agency's top national priority. Over the next decade, the BLM will be focusing Northwest Forest Plan research in three primary areas: 1) additional dimensions of young forest stand biodiversity; 2) work on determining appropriate riparian buffer widths; whether management actions in riparian reserves can be conducted without compromising Northwest Forest Plan Aquatic Conservation Strategy Objectives including protection of Pacific salmon; and 3) work on Survey and Manage species.

A long term (15 years plus) western Oregon wide density management study (DMS) was initiated in 1997 by the Roseburg District in cooperation with the United States Geological Service (USGS) Forest and Rangeland Ecosystem Science Center (FRESC). Three study sites were identified for the Roseburg District. The study was established to explore techniques to accelerate development of young stands into late-successional forest structures through active management. Initial treatments were implemented in 1997-1998. Data analysis from the second post treatment measurement collected in fiscal year 2003 is underway for the two sites which have been harvested to date. The study contains components examining vegetation response, effects of treatments on micro-climate and micro-habitat, aquatic vertebrates, lichens and bryophytes. These sites also serve as demonstration areas for educational purposes.

In 2004, the first DMS findings workshop was held at Oregon State University in Corvallis and Powerpoint presentations with initial study results were posted online at: <http://ocid.nacse.org/nbii/density/>. A draft proposal was initiated for new study treatments to be implemented in 2009-2011. A manuscript describing the DMS and the riparian buffer study component was published in the Forest Snow and Landscape Research Journal. A book chapter describing the initial findings of the effects of thinning on aboveground fungi was published. A manuscript describing the effectiveness of leave islands for low-mobility species was submitted for publication.

This research compliments the work being undertaken to implement the Cooperative Forest Ecosystem Research (CFER) program the BLM has developed with Biological Resources Division, US Geologic Survey, Oregon State University, and Forest and Rangeland Ecosystem Science Center (FRESC), US Geologic Survey. The CFER program was initiated in June 1995. The intent of the program is to develop and convey reliable scientific information needed to successfully implement ecosystem-based management in the Pacific Northwest, especially on lands dominated by young forests and fragmented by multiple ownerships. Other FRESC research includes such core areas as aquatic and wetland ecosystems, and wildlife ecology.

Information Resource Management

The ability to accomplish very complex management of diverse resources over 425,000 acres requires enormous amounts of information. In order to accomplish this management in an efficient manner, the Roseburg District employees the most up to date electronic office and geographic information system (GIS) hardware and software. There have been several recent major accomplishments concerning information resource management.

First, the office data and electrical systems were upgraded to carry the district well into the future. All of the outdated cabling and data communications equipment were removed during the process. Next, the data connections to other districts, agencies and the Internet were completed. The district achieved its goal of providing all employees access to electronic mail, office automation software and the Internet.

Finally, and most significant to district resource management professionals, is the growth in use of the geographic information system. This electronic mapping and analysis tool is providing a means for district specialists to complete complex analyses of spatial and relational data. A large number of resource managers have recently been trained in the use of GIS software. The training has resulted in a surge of GIS use on the district.

There has been a significant continuing effort to upgrade software and hardware with the goal of simplifying work and increasing capability to accomplish complex analysis of large amounts of data. All of these achievements are the result of a focused effort to modernize the district office. The Roseburg District's goal is to continue to place appropriate technology and training in the hands of employees and decision makers to increase efficiency and effectiveness.

Geographic Information System - The BLM in western Oregon made a substantial investment in building a geographic information system (GIS) as it developed the resource management plans (RMPs). This information system has allowed the BLM to organize and standardize basic resource data across the western Oregon districts.. The GIS has now become a day to day tool in resource management that allows us to display and analyze complex resource issues in a fast and efficient manner. BLM is now actively updating and enhancing the resource data as conditions change and further field information is gathered. The GIS plays a fundamental role in ecosystem management which allows the BLM to track constantly changing conditions, analyze complex resource relationships, and take an organized approach for managing resource data.

Cadastral

Cadastral Survey crews perform an essential function in the accomplishment of resource management objectives. Cadastral's traditional work has been performing legal boundary surveys; establishing, or reestablishing, marking and maintaining federal boundaries. In addition to the normal work, Cadastral provided technical assistance for

legal and spatial land information products and other related services that enhance the management of the natural and cultural resources.

Projects Completed	13
Miles of PLSS Line	52
Monuments Set	122
Boundary marked & posted	32
*Contacts	153

* generally documented responses to phone calls, correspondence, E-mail and office visits.

Law Enforcement

Roseburg District have two full time BLM Rangers along with the services of a Douglas County Deputy Sheriff (through a law enforcement agreement with Douglas County) for law enforcement duties. Law enforcement efforts on the Roseburg District for fiscal year 1996 through 2004 included participating in operations during active protests and other demonstrations having the potential for confrontation, destruction of government property, or threatened employee or public safety, investigating occupancy trespass cases, coordination with various state, local and federal agencies on the exchange of information concerning illegal or planned illegal activities on BLM lands, along with regular patrols and other ongoing investigations. Cases and incidents have resulted in written warnings, citations, physical arrests, and the referral of cases to other agencies. In addition, through the BLM Rangers and Deputy Sheriff, the Roseburg District has been able educate the public concerning appropriate uses of public lands and resources as well as preventing or avoiding potentially unlawful or harmful incidents and activities.

National Environmental Policy Act Analysis and Documentation

NEPA documentation

The review of the environmental effects of a proposed management action can occur in any of four ways: categorical exclusions, administrative determinations, environmental assessments, or environmental impact statements.

A categorical exclusion is used when it has been determined that some types of proposed activities do not individually or cumulatively have significant environmental effects and may be exempt from requirements to prepare an environmental analysis. Categorical exclusions (CX) are covered specifically by Department of Interior and BLM guidelines.

Table 24. Roseburg District Cadastral Survey Activity

	Fiscal Year								
	96	97	98	99	00	01	02	03	04
Projects Completed	7	10	13	10	10	12	15	17	13
Cadastral Projects	7	7	7	7	9	14	16	17	13
Miles of Survey Line Run	35.7	58	78	41	41	57	53	57	52

An administrative determination is a determination by BLM that NEPA documentation previously prepared by the BLM fully covers a proposed action and no additional analysis is needed. This procedure is often used in conjunction with a plan conformance determination. If an action is fully in conformance with actions specifically described in the RMP and analyzed in the RMP/FEIS, a plan conformance determination may be made and no additional analysis would be needed. A recent procedure now being implemented by the BLM is called a determination of NEPA adequacy (DNA) in which an action is examined in the light of existing NEPA documents to determine if NEPA requirements have been met.

An environmental assessment (EA) is prepared to assess the effects of actions that are not exempt from NEPA, are not categorically excluded, and are not covered by an existing environmental document. An EA is prepared to determine if a proposed action or alternative will significantly affect the quality of the human environment.

Major proposals that will significantly affect the environment, and that have not been previously analyzed through an environmental impact statement (EIS) require that an EIS be prepared.

Roseburg District Environmental Documentation, Fiscal Years 1996-2004

For fiscal year 2004, the Roseburg District completed 10 environmental assessments, 9 determinations of NEPA adequacy and 45 categorical exclusions. During fiscal years 1996-2004, the Roseburg District completed approximately 100 environmental assessments, 516 categorical exclusions, 49 determination of NEPA adequacy (DNA) or Plan conformance determinations and one environmental impact statement. The environmental assessments vary in complexity, detail and length depending on the project involved.

Protest and Appeals

Most Roseburg District timber sale environmental assessment decision records have been protested and appealed since the expiration of the Recission Act at the end of December 1996. Protest and appeal issues have challenged compliance with the RMP ROD, compliance with NEPA, analyses, assumptions and conclusions. Most protests and appeals have been received by a single local environmental organization.

Recurring issues raised in the protests and appeals include: EA is insufficient, an EIS is needed, fail to follow recommendations of watershed analysis, improperly determine riparian reserve widths, not maintaining or restoring degraded watersheds, snags and coarse woody debris, failure to implement Survey and Manage protocol, and road building.

The staff work involved in responding to protest and appeals on the Roseburg District represent a significant workload.

Resource Management Plan Revision

In August 2003, the U.S. Department of Justice, on behalf of the Secretary of Interior and the Secretary of Agriculture signed a Settlement Agreement which settles litigation with the American Forest Resource Council, and the Association of O&C Counties, hereafter referred to as the Settlement Agreement, (AFRC v. Clarke, Civil No. 94-1031-TPJ (D.D.C.)). Among other items in the Settlement Agreement the BLM is required to revise the six existing Resource Management Plans by December, 2008 in western Oregon

consistent with the O&C Act as interpreted by the 9th Circuit Court of Appeals. Under the Settlement Agreement, the BLM is required to consider an alternative in the land use plan revisions which will not create any reserves on O&C lands, except as required to avoid jeopardy under the Endangered Species Act (ESA) or meet other legal obligations. In FY2004 the BLM in western Oregon began making preparations in order to comply with Resource Management Plan revision section of the Settlement Agreement.

Resource Management Plan Evaluations

Formal Resource Management Plan (RMP) evaluation of the Roseburg District RMP were completed in fiscal year 2000 and 2004. Periodic evaluations of land use plans and environmental review procedures are required by the Bureau's planning regulations (43 Code of Federal Regulations (CFR), Part 1610.4-9) to determine the status of ongoing plan implementation, conformance and monitoring.

The Roseburg evaluation of 2004 served as a review of cumulative progress for the composite fiscal year period of 1995 through 2003 and assessed the progress of implementing and meeting the objectives of the RMP. The evaluation determined that, with the exception of a few program areas, all RMP management actions/direction were being implemented with a high degree of fidelity and that RMP objectives were being met or would be met. An exception to this was the ability of the Roseburg District to fully implement the timber program. Information regarding the timber program shortfall is summarized in this Annual Program Summary. This situation will be addressed in a Resource Management Plan revision scheduled for completion in 2008.

A previous RMP evaluation was completed in fiscal year 2000 for the period of 1995 through 1998.

Plan Maintenance

The Roseburg Resource Management Plan Record of Decision was approved in June 1995. Since that time, the Roseburg District has begun implementation of the plan across the entire spectrum of resources and land use allocations. As the plan is implemented it sometimes becomes necessary to make minor changes, refinements or clarifications of the plan. Potential minor changes, refinements or clarifications in the plan may take the form of maintenance actions. Maintenance actions respond to minor data changes and incorporation of activity plans. This maintenance is limited to further refining or documenting a previously approved decision incorporated in the plan. Plan maintenance will not result in expansion of the scope of resource uses or restrictions or change the terms, conditions and decisions of the approved resource management plan. Maintenance actions are not considered a plan amendment and do not require the formal public involvement and interagency coordination process undertaken for plan amendments. Important plan maintenance will be documented in the Roseburg District Planning Update and Roseburg District Annual Program Summary. Examples of possible plan maintenance issues that would involve clarification may include the level of accuracy of measurements needed to establish riparian reserve widths, measurement of coarse woody debris, etc. Much of this type of clarification or refinement involves issues that have been examined by the Regional Ecosystem Office and contained in subsequent instruction memos from the BLM Oregon State Office. Depending on the issue, not all plan maintenance issues will necessarily be reviewed and coordinated with the Regional Ecosystem Office or Provincial Advisory Committee. Plan maintenance is also described in the Roseburg District Resource Management Plan Record of Decision, page 79.

The following items have been implemented on the Roseburg District as part of plan maintenance. Some are condensed descriptions of the plan maintenance items and do not include all of the detailed information contained in the referenced instruction or information memos. These plan maintenance items represent minor changes, refinements or clarifications that do not result in the expansion of the scope of resource uses or restrictions or change the terms, conditions and decisions of the approved resource management plan.

Plan Maintenance for fiscal year 1996

1. Refinement of management direction pertaining to riparian reserves.

Standard of accuracy for measuring riparian reserve widths. (NFP Record of Decision pg B-13, Roseburg RMP Record of Decision pg 23)

As reviewed by the Regional Ecosystem and Research, and Monitoring Committee; a reasonable standard of accuracy for measuring riparian reserve widths in the field for management activities is plus or minus 20 feet or plus or minus 10% of the calculated width.

2. Refinement of management direction pertaining to riparian reserves.

Determining site-potential tree height for riparian reserve widths. NFP Record of Decision page C-31, Roseburg RMP Record of Decision pg 24)

According to the NFP Record of Decision, and the Roseburg District Resource Management Plan Record of Decision, "site potential tree height is the average maximum height of the tallest dominant trees (200 years or older) for a given site class." As reviewed by the Regional Ecosystem Office and as set forth by Instruction Memo OR-95-075, the Roseburg District will determine site-potential tree height for the purpose of establishing riparian reserve widths by the following steps:

- Determine the naturally adapted tree species which is capable of achieving the greatest height within the fifth field watershed and/or stream reach in question;
- Determine the height and age of dominant trees through on-site measurement or from inventory data (Continuous Forest Inventory Plots;

Average the site index information across the watershed using inventory plots, or well-distributed site index data, or riparian-specific derived data where index values have a large variation;

Select the appropriate site index curve;

Use Table 1 (included in Instruction Memo OR-95-075) to determine the maximum tree height potential which equates to the prescribed riparian reserve widths.

Additional detail concerning site potential tree height determination is contained in the above referenced instruction memo. Generally, the site potential tree heights used on the Roseburg District are usually in the vicinity of 160 to 200 feet.

3. Minor change and refinement of management direction pertaining to coarse woody debris in the matrix.

Coarse woody debris requirements.(NFP Record of Decision pg C-40, Roseburg RMP Record of Decision pg 34, 38, 65)

As recommended by the Research and Monitoring Committee and as reviewed and

forwarded by the Regional Ecosystem Office, the Roseburg District will use the following guidelines in meeting the coarse woody debris requirements (leave 120 linear feet of logs per acre greater than or equal to 16 inches in diameter and 16 feet long) in the General Forest Management Area and Connectivity/Diversity Blocks.

- In determining compliance with the linear feet requirements for coarse woody debris, the Roseburg District will use the measurement of the average per acre over the entire cutting unit, or total across the unit.
- log diameter requirements for coarse woody debris will be met by measuring logs at the large end.
- interdisciplinary teams will establish minimum coarse woody debris requirements on each acre to reflect availability of coarse woody debris and site conditions.
- During partial harvests early in rotational cycle, it is not necessary to fall the larger dominant or codominant trees to provide coarse woody debris logs.
- Count decay class 1 and 2 tree sections greater than or equal to 30 inches in diameter on the large end that are between 6 feet and 16 feet in length toward the 120 linear feet requirement

In addition, the coarse woody debris requirements have been further refined in cooperation with the Southwest Oregon Province Advisory Committee, a diverse group of land managers and interest groups with representation from federal land management and regulatory agencies, state and local government, timber industry, recreation, environmental, conservation, fishing, mining, forest products, grazing, and tribal interests. After this refinement has been implemented for one year, the Province Advisory Committee will evaluate the results.

This process for determining coarse woody debris requirements, which is described in seven steps, is anticipated to be a very simple process that an interdisciplinary team will follow when planning projects that may impact levels of coarse woody debris. New prescriptions will be only for the project being planned.

(Note: This plan maintenance refinement was in effect for one year and was not renewed.)

4. Minor change in management direction pertaining to lynx.

Change in specific provisions regarding the management of lynx. (NFP Record of Decision pages C-5, C-45, C-47 C-48; Roseburg RMP Record of Decision pages 45, 46, 47).

This documents an Oregon State Director decision to implement through plan maintenance of the western Oregon BLM resource Management Plans a Regional Interagency Executive Committee decision.

This refinement of lynx management consists of the changing the survey and manage lynx requirements from survey prior to ground disturbing activities to extensive surveys. Implementation schedule is changed from surveys to be completed prior to ground disturbing activities that will be implemented in fiscal year 1999 to surveys must be under way by 1996. Protection buffer requirements for lynx are unchanged.

These changes simply resolve an internal conflict within the Northwest Forest Plan Record of Decision and Roseburg Resource Management Plan.

5. Minor change in standards and guidelines for *Buxbaumia piperi*

On July 26, 1996, the Oregon State Director issue a minor change in the standards and guidelines or management action direction in the RMP for *Buxbaumia piperi* (a species of moss) through plan maintenance. The State Director's action "maintained" the Roseburg, Salem, Eugene, Medford, and Klamath Falls Resource Management Plans. Simultaneously, the Forest Service issued Forest Plan corrections for 13 National Forests in the Northwest to accomplish the same changes.

This plan maintenance action removes *B. piperi* as Protection Buffer species. This change corrects an error in which mitigation measures described on page C-27 of the Northwest Forest Plan Record of Decision and on page 44 of the Roseburg District Resource Management Plan Record of Decision were incorrectly applied to *B. Piperi*.

B. piperi was addressed in the Scientific Analysis Team (SAT) report published in 1993. The Northwest Forest Plan Record of Decision included some Protection Buffer species sections from the SAT report. The SAT Protection Buffer species status was developed to improve the viability of species considered at risk. Although *B. piperi* is not rare, it was apparently carried forward as a Protection Buffer species because it was rated with a group of rare mosses that occupy similar habitat.

This plan maintenance is supported by staff work and information from the Survey and Manage Core Team, and the expert panel of Pacific Northwest specialists on bryophytes, lichens and fungi that participated in the Scientific Analysis Team process.

6. Minor change/correction concerning mountain hemlock dwarf mistletoe

Appendix H-1 of the Roseburg RMP Record of Decision indicated that *Aruethobium tsugense* was to be managed under survey strategies 1 and 2. The Regional Ecosystem Office later determined mountain hemlock dwarf mistletoe to be common and well distributed in Oregon, and recommended that *Aruethobium tsugense* subsp. *Mertensianae* be managed as a survey strategy 4 species in Washington only. This information was received in OSO Information Bulletin OR-95-443 is adopted as RMP clarification.

Plan Maintenance for fiscal year 1997

1. Correction of typographical errors concerning understory and forest gap herbivore arthropods.

Appendix H, Table H-1, page 186 of the Roseburg RMP Record of Decision: "Anthropods" is changed to "Arthropods". "Understory and forest gap herbivores" is changed to "Understory and forest gap herbivores (south range)". Information from Oregon State Office Information Bulletin OR-97-045.

2. Clarification of implementation date requirement for Survey and Manage component 2 surveys.

The S&G on page C-5 of the NFP ROD states "implemented in 1997 or later", the NFP ROD, page 36 states "implemented in fiscal year 1997 or later". In this case where there is a conflict between specified fiscal year (ROD-36) and calendar year (S&G C-5) the more specific fiscal year date will be used over the non-specific S&G language. Using fiscal year is the more conservative approach and corresponds to the fiscal year cycle used in project planning and, also, to the subsequent reference to surveys to be implemented prior to fiscal year 1999. Information from Oregon State Office Instruction Memorandum OR-97-007.

3. Clarification of what constitutes ground disturbing activities for Survey and Manage component 2.

Activities with disturbances having a likely "significant" negative impact on the species habitat, its life cycle, microclimate, or life support requirements should be surveyed and assessed per protocol and are included within the definition of "ground disturbing activity".

The responsible official should seek the recommendation of specialists to help judge the need for a survey based on site-by-site information. The need for a survey should be determined by the line officer's consideration of both the probability of the species being present on the project site and the probability that the project would cause a significant negative affect on its habitat. Information from Oregon State Office Instruction Memo OR-97-007.

4. Clarification when a project is implemented in context of component 2 Survey and Manage.

S&G C-5 of NFP ROD and Management Action/Direction 2.c., page 22 of the RMP ROD states that "surveys must precede the design of activities that will be implemented in [fiscal year] 1997 or later." The interagency interpretation is that the "NEPA decision equals implemented" in context of component 2 species survey requirements. Projects with NEPA decisions to be signed before June 1, 1997 have transition rules that are described in IM OR-97-007. Information from Oregon State Office Instruction Memorandum OR-97-007.

5. Conversion to Cubic Measurement System.

Beginning in fiscal year 1998 (October 1997 sales), all timber sales (negotiated and advertised) will be measured and sold based upon cubic measurement rules. All timber sales will be sold based upon volume of hundred cubic feet (CCF). The Roseburg District RMP ROD declared an allowable harvest level of 7.0 million cubic feet. Information from Oregon State Office Instruction Memorandum OR-97-045.

6. Clarification of retention of coarse woody debris.

The NFP ROD S&G, pg C-40 concerning retention of existing coarse woody debris states: "Coarse Woody Debris already on the ground should be retained and protected to the greatest extent possible. . . ". The phrase "to the greatest extent possible" recognizes felling, yarding, slash treatments, and forest canopy openings will disturb coarse woody debris substrate and their dependant organisms. These disturbances should not cause substrates to be removed from the logging area nor should they curtail treatments. Reservation of existing decay class 1 and 2 logs, in these instances, is at the discretion of the district. Removal of excess decay class 1 and 2 logs is contingent upon evidence of appropriately retained or provided amounts of decay class 1 and 2 logs.

Four scenarios are recommended to provide the decay class 1 and 2 material by using standing trees for coarse woody debris:

Scenario 1. Blowdown commonly occurs and wind normally fells retention trees, providing both snags and coarse woody debris immediately following regeneration harvest. After two winter seasons, wind firm trees may still be standing; top snap occurs providing both snags and coarse woody debris; and blowdowns include total tree length, often with the root wad attached. A third year assessment would monitor for coarse woody debris and determine if the need exists to fell trees to meet the required linear feet.

Scenario 2. In small diameter regeneration harvest stands, the largest sized green trees are selected as coarse woody debris and felled following harvest. The alternative is to allow these trees to remain standing and potentially to grow into larger sized diameter coarse woody debris substrate after a reasonable period of time.

Scenario 3. The strategy is to meet the decay class 1 and 2 log level required post-harvest immediately following logging or the site preparation treatment period. This strategy assumes that an adequate number of reserve trees are retained to meet the requirement. Upon completion of harvest, the existing linear feet of decay class 1 and 2 logs for each sale unit are tallied; and then the reserve trees are felled to meet the 120 feet linear foot requirement. Knockdowns, trees felled to alleviate a logging concern, and blowdowns are counted toward the total linear feet so long as they meet the decay class, diameter, and length requirements. The minimum amount of coarse woody debris linear feet are ensured, and excess trees continue to grow.

Scenario 4. Provide the full requirement of coarse woody debris in reserve trees. There is no need to measure linear feet since the decay class 1 and 2 requirements will be met from the standing, reserved trees. Accept whatever linear feet of decay class 1 and 2 logs is present on the unit post-harvest. The management action will be to allow natural forces (primarily windthrow) to provide infusions of trees into coarse woody debris decay classes 1 and 2 over time from the population of marked retention trees and snag replacement trees.

Large diameter logs which are a result of felling breakage during logging but are less than 16 feet long may be counted towards the linear requirement when:

- the large end diameters are greater than 30 inches and log length is greater than 10 feet
- log diameters are in excess of 16 inches and volume is in excess of 25 cubic feet.
- they are the largest material available for that site.

The above information for clarification of coarse woody debris requirements is from Oregon State Office Instruction Memo OR-95-28, Change 1, and Information Bulletin OR-97-064.

7. Clarification of insignificant growth loss effect on soils.

Management action/direction contained in the RMP ROD pp 37 and 62 states that "In forest management activities involving ground based systems, tractor skid trails including existing skid trails, will be planned to have insignificant growth loss effect. This management action/direction was not intended to preclude operations in areas where previous management impacts are of such an extent that impacts are unable to be mitigated to the insignificant (less than 1%) level. In these cases, restoration and mitigation will be implemented as described in the RMP ROD management action/direction and best management practices such that growth loss effect is reduced to the extent practicable.

Plan maintenance for fiscal year 1998

1. Refinement of 15% Retention Management Action/Direction.

Guidance on implementation of the 15% retention management action/direction which provides for retention of late-successional forests in watersheds where little remains. A joint BLM-FS guidance which incorporated the federal executives' agreement was issued on September 14, 1998, as BLM Instruction Memorandum No. OR-98-100. This memo clarifies and refines the standard and guideline contained in the Northwest Forest Plan

and RMP that directs that in fifth field watersheds in which federal forest lands are currently comprised of 15% or less late-successional forest should be managed to retain late-successional patches. The memo emphasizes terminology and intent related to the standard and guideline, provides methods for completing the assessment for each fifth field watershed, dictates certain minimum documentation requirements and establishes effective dates for implementation. Instruction Memo OR-98-100 is adopted in its entirety as RMP clarification and refinement.

2. Clarification of Visual Resource Management Action/Direction.

Management Action/Direction for Visual Resources has been found to be unclear due to internal inconsistency. The Roseburg RMP includes management action/direction in addition to that which is common to all other western Oregon BLM districts. The prescriptive management action/direction unique to the Roseburg District RMP has been found too difficult to implement in a logical and consistent manner. The management action/direction for visual resources is refined by the deletion of five paragraphs that discuss harvest scenarios on page 53 of the RMP/ROD. This refinement does not result in the expansion of the scope of resource uses and allows the Roseburg District RMP/ROD to be consistent with other western Oregon BLM RMP/RODs.

Plan maintenance for fiscal year 1999

1. Refinement of Survey and Manage Management Action/Direction.

Ongoing plan maintenance has resulted from the refinement and clarification related to the survey and manage management action/direction (Roseburg RMP ROD pg. 22). Survey and manage gives direction for hundreds of species and taxa. The management recommendations and survey protocols for these species is received through Instruction Memoranda which are jointly issued by the BLM and Forest Service through coordination with the Regional Ecosystem Office. In fiscal year 1999, survey protocols were established for lynx (IM No. OR-99-25) and fifteen vascular plants (IM No. OR-99-26); management recommendations were received for fifteen vascular plants (IM No. OR-99-27), nineteen aquatic mollusk species (IM No. OR-99-38), and five bryophyte species (IM No. OR-99-39). In addition, a change in the implementation schedule for certain survey and manage and protection buffer species was issued (IM No. OR 99-47). This schedule change was analyzed through an environmental assessment.

Plan maintenance for fiscal year 2000

1. Refinement of Survey and Manage Management Action/Direction.

Ongoing plan maintenance has continued as in fiscal year 2000 regarding survey and manage management action/direction with the establishment of management recommendations and survey protocols through jointly issued Instruction Memoranda by the BLM and Forest Service in coordination with the Regional Ecosystem Office. In fiscal year 2000, survey protocols were established for amphibians (IM No. OR-200-04), bryophytes (IM No. OR-2000-17, IM No. OR-2000-17 change 1), fungi (IM No. OR-2000-18), and red tree vole (IM No. OR-2000-37). Management recommendations were received for mollusks (IM No. OR-2000-03, IM No. OR-2000-15), and lichens (IM No. OR-2000-42). These instruction memorandums may be found at the Oregon State Office web site under "Northwest Forest Plan" (<http://web.or.blm.gov/>)

2. Clarification of ACEC/RNAs closed to motorized use.

Bushnell-Irwin Rocks ACEC/RNA was inadvertently not included on the list of ACEC/RNAs that are closed to motorized use on page 59 of the RMP ROD. ACEC/RNA's are

closed to motorized use on page 51 of the RMP ROD and Bushnell-Irwin Rocks ACEC / RNA is listed as closed to motorized use in the Roseburg District Off-Highway Vehicle Implementation Plan. This plan maintenance eliminates this inconsistency and clarifies that Bushnell-Irwin Rocks ACEC / RNA is closed to motorized use.

3. Refinement and clarification of Best Management Practices (RMP ROD Appendix D.) related to site preparation using prescribed burning.

Through an interdisciplinary process, the Roseburg District has determined that the objective of maintaining soil productivity could be better accomplished through refinement and clarification of Best Management Practices related to site preparation using prescribed burning.

For the purposes of this plan maintenance, the Best Management Practices language found on pages 139-140 of the RMP ROD, III.B.1 through 9 and III. D.1. is replaced by the following:

(III.C. and D.2 to end remain unchanged):

B. Site Preparation Using Prescribed Burning

Objectives: To maintain soil productivity and water quality while meeting resource management objectives.

a. Machine pile and burn:

1. Limit the use of mechanized equipment to slopes less than 35%.
2. Do not compact skeletal or shallow soils.
3. Keep total surface area of soil compaction (greater than 15% bulk density increase in a greater than 4 inch thick layer) to a maximum of 10% of machine piled area (prior to tillage).
4. Till all compacted areas with a properly designed winged subsoiler. This could be waived if less than 2% of the machine piled area is compacted.
5. Materials to be piled will be 16 inches in diameter or less.
6. Burn when soil and duff moisture between piles is high.
7. Avoid displacement of duff and topsoil into piles.
8. Highly sensitive soils are all soils less than 20 inches deep, soils with less than 4 inches of "A" horizon, granite and schist soils on slopes greater than 35% and other soils on slopes greater than 70%. These soils are referred to as category 1 soils. On highly sensitive (category 1) soils, machine pile and burn treatments considered to be essential to meet resource management objectives will be designed to minimize consumption of litter, duff, and large woody debris. Mineral soil exposed by the burn will be less than 15% of the unit surface area.

b. Hand pile and burn, swamper burning:

1. Pile small materials (predominately 1 - 6 inches in diameter).
2. Burn when soil and duff moisture between piles is high.

3. Only pile areas where loading (depth and continuity) require treatment to meet management objectives.
4. On highly sensitive (category 1) soils, hand pile and burn (and swamper burn) treatments considered to be essential to meet resource management objectives will be designed to minimize consumption of litter, duff, and large woody debris. Mineral soil exposed by the burn will be less than 15% of unit surface area.

c. Broadcast burning:

1. Burn under conditions that result in lightly to moderately burned area, minimizing consumption of duff and large woody debris. This typically occurs when soil and duff moisture is high.

Lightly burned: The surface duff layer is often charred by fire but not removed. Duff, crumbled wood or other woody debris partly burned, logs not deeply charred.

Moderately burned: Duff, rotten wood or other woody debris partially consumed or logs may be deeply charred by mineral soil under the ash not appreciably changed in color.

Severely burned: Top layer of mineral soil significantly changed in color, usually to reddish color, next one-half inch blackened from organic matter charring by heat conducted through top layer.

2. When feasible, pull slash and woody debris adjacent to landing onto landing before burning.
3. On highly sensitive (category 1) soils, broadcast burning treatments considered essential to meet resource management objectives will be designed to minimize consumption of litter, duff, and large woody debris. Mineral soil exposed by the burn will be less than 15% of the unit surface area.
4. Clarification of what roads shall be included as a starting point to monitor the reduction of road mileage within key watersheds.

Guidance on how to define the baseline roads or the discretionary ability to close roads was not included in the RMP Management Action/Direction for Key Watersheds. Information Bulletin OR-2000-134 issued on March 13, 2000, clarified what roads shall be included in the 1994 BLM road inventory base used as a starting point to monitor the "reduction of road mileage within Key Watersheds" as follows:

Any road in existence on BLM administered land as of April 1994, regardless of ownership or whether it was in the road records, shall be included in the 1994 base road inventory. Also, include BLM-controlled roads on non-BLM administered lands. A BLM controlled road is one where the BLM has the authority to modify or close the road. Do not include skid roads/trails, as technically they are not roads.

Plan Maintenance for fiscal year 2001

1. Refinement of implementation monitoring question regarding Survey and Manage management action/direction.

As a result of the modifications to the Survey and Manage management action/

direction (standards and guidelines) through the Record of Decision and Standards and Guidelines for Amendments to the Survey and Manage, Protection Buffer, and other Mitigation Measures Standards and Guidelines in January 2001, it is necessary to refine the implementation monitoring questions associated with this standard and guideline. Implementation monitoring question number one for All Land Use Allocations has been modified to read: "Is the management action for the Record of Decision and Standards and Guidelines for Amendments to the Survey and Manage, Protection Buffer, and other Mitigation Measures Standards and Guidelines being implemented as required?".

2. Refinement of implementation monitoring questions regarding Special Status Species.

The implementation monitoring question regarding special status species were found to contain redundancies with the Survey and Manage monitoring questions. The redundancies have been eliminated by removing Survey and Manage questions from special status species. Survey and Manage monitoring is fully accomplished through the implementation question under All Land Use Allocations. In addition, implementation monitoring question number one for special status species was basically redundant with question number two and there for question number one was eliminated. The title for this monitoring section has been modified to delete reference to SEIS Special Attention Species (Survey and Manage).

3. Refinement and clarification of objectives, management action/direction and implementation monitoring question regarding soils resource.

The management action/direction for the Soils Resource is different than that for any other resource in that it combines RMP objectives with management action/direction. Experience in RMP monitoring has disclosed difficulty in effectively measuring the accomplishment of Soils Resource management action/direction. The District Soil Scientist and Geotechnical Engineer have examined this issue from a technical perspective in the field and recently published literature has been reviewed. The technical review and recent literature indicates that operational monitoring which would produce meaningful and reliable results of the current soils management action/direction as currently written is not practical.

The RMP is clarified and refined in the following manner:

The RMP objective to "improve and/or maintain soil productivity" (RMP pg. 35) is retained.

The *objective* of "insignificant growth loss effect" (RMP pg. 37) and "insignificant (less than one percent) growth loss effect" (RMP pg 62) is removed from management action/direction. The intention and purpose of this *objective* which was combined with management action/direction is preserved in the existing language of the RMP objectives for the soil resource.

The entire management action/direction contained in the fourth paragraph page 37 (beginning "In forest management activities. . .") and the second paragraph page 62 (beginning "Plan timber sales. . .") is replaced by:

"For forest management activities involving ground based systems, improve or maintain soil productivity by:

- a.) the cumulative (created or used since the adoption of the RMP) main skid trails, landings and large pile areas will affect less than approximately 10%, of the ground based harvest unit
- b.) a main skid trail is defined as a trail in which the duff is displaced such that approximately 50% or more of the surface area of the trail is exposed to mineral soil
- c.) skid trails which were created prior to the adoption of the RMP should be re-used

- to the extent practical, such skid trails that are re-used will be included in the 10% limit of affected area within the ground based harvest unit
- d.) limit skid trails to slopes generally less than approximately 35%. Examples of exceptions to the 35% slope limit would include situations such as small inclusions of steeper slopes, connecting trails to isolated ground based harvest areas, or the use of existing trails that can be used without causing undue effects to soils
- e.) in partial cut areas, locate main skid trails so that they may be used for final harvest
- f.) conduct ground based operations only when soil moisture conditions limit effects to soil productivity (these conditions generally can be expected to be found between May 15 and the onset of regular fall rains or may be determined by on-site examination)
- g.) on intermediate harvest entries, ameliorate main skid trails and areas of non-main skid trails warranting amelioration, or document a plan (e.g. such as adding a map to watershed analysis) so that amelioration may be accomplished at the time of final harvest
- h.) potential harvest units will be examined during the project planning process to determine if skid trails created prior to the adoption of the RMP have resulted in extensive enough compaction to warrant amelioration
- i.) upon final harvest ameliorate all main skid trails, those portions of non-main skid trails warranting amelioration, skid trails documented and carried over from intermediate harvests, and skid trails created prior to the adoption of the RMP which were identified in the planning process as warranting amelioration
- j.) amelioration of skid trails will generally consist of tilling with equipment designed to reduce the effects to soil productivity from compaction and changes in soil structure.

For mechanical site preparation, management action / direction is refined as follows:

The fourth condition under which track-type equipment must operate (RMP pg 63, beginning: "4. Operate at soil moistures that. . .") is replaced with:

"4. Conduct mechanical site preparation when soil moisture conditions limit effects to soil productivity (these conditions generally can be expected to be found between May 15 and the onset of regular fall rains or may be determined by on-site examination). Total exposed mineral soil resulting from main skid trails and mechanical site preparation activities will be less than 10% of the ground based harvest unit area. Total exposed mineral soil as a result of mechanical site preparation in cable or helicopter harvest units will be less than approximately 5% of harvest unit area. Units will be examined after site preparation has been completed to determine if amelioration (generally tilling) is warranted to reduce the effects to soil productivity from compaction and changes in soil structure."

Implementation monitoring question number six for Water and Soils is changed to: "Have forest management activities implemented the management direction for ground based systems and mechanical site preparation as listed in the fiscal year 2001 plan maintenance?"

4. Refinement of Resource Management Plan evaluation interval.

The RMP, in the Use of the Completed Plan section (Roseburg District Record of Decision and Resource Management Plan, pp. 78-79), established a three year interval for conducting plan evaluations. The purpose of a plan evaluation is to determine if there is significant new information and or changed circumstance to warrant amendment or revision of the plan. The ecosystem approach of the RMP is based on long term management actions to achieve multiple resource objectives including; habitat development, species protection, and commodity outputs. The relatively short three year cycle has been found to be inappropriate for determining if long

term goals and objectives will be met. A five year interval is more appropriate given the resource management actions and decisions identified in the RMP. The Annual Program Summaries and Monitoring Reports continue to provide the cumulative RMP accomplishments. Changes to the RMP continue through appropriate amendments and plan maintenance actions. A five year interval for conducting evaluations is consistent with the BLM planning guidance as revised in November 2000.

The State Director decision to change the evaluation interval from three years to five years was made on March 8, 2002. It was directed that this plan maintenance be published in the 2001 Annual Program Summary. The next evaluation of the Roseburg District Resource Management Plan will address implementation through September 2003.

2001 Amendment to the Northwest Forest Plan and RMP

The Survey and Manage mitigation in the Northwest Forest Plan was amended in January 2001 through the signing of the Record of Decision (ROD) for the AFinal Supplemental Environmental Impact Statement for Amendment to the Survey and Manage, Protection Buffer, and other Mitigation Measures Standards and Guidelines. The intent of the amendment was to incorporate up-to-date science into management of Survey and Manage species and to utilize the agencies' limited resources more efficiently. The ROD provides approximately the same level of protection intended in the Northwest Forest Plan but eliminates inconsistent and redundant direction and establishes a process for adding or removing species when new information becomes available.

The ROD reduced the number of species requiring the Survey and Manage mitigation, dropping 72 species in all or part of their range. The remaining species were then placed into 6 different management categories, based on their relative rarity, whether surveys can be easily conducted, and whether there is uncertainty as to their need to be included in this mitigation. The following table shows a break down of the placement of these 346 species, and a brief description of management actions required for each.

The ROD identifies species management direction for each of the above categories. Uncommon species categories C and D require the management of "high priority" sites only, while category F requires no known site management. The new Standards and Guidelines also establish an in-depth process for reviewing and evaluating the placement of species into the different management categories. This process allows for adding, removing, or moving species around into various categories, based on the new information acquired through our surveys.

Approval of the *Record of Decision and Standards and Guidelines for Amendment to the Survey and Manage, Protection Buffer, and other Mitigation Measures Standard and Guidelines* amended the Standards and Guidelines contained in the Northwest Forest Plan Record of Decision related to Survey and Manage, Protection Buffers, Protect Sites from Grazing, Manage Recreation Areas to Minimize Disturbance to Species, and Provide Additional Protection for Caves, Mines, and Abandoned Wooden Bridges and Building That are Used as Roost Sites for Bats. These standards and guidelines were removed and replaced by the contents of the *Record of Decision and Standards and Guidelines for Amendment to the Survey and Manage, Protection Buffer, and other Mitigation Measures Standard and Guidelines*.

Plan Maintenance actions to delete all references to Management Action/Direction for Survey and Manage and Protection Buffer species in the Roseburg District Resource Management Plan and Appendices and adopt the Standards and Guidelines contained in the *Record of Decision and Standards and Guidelines for Amendment to the Survey and Manage, Protection Buffer, and other Mitigation Measures* are required in response to the Record of Decision.

Table 25. Redefine Categories Based on Species Characteristics

Relative Rarity	Pre-Disturbance Surveys Practical	Pre-Disturbance Surveys Not Practical	Status Undetermined Pre-Disturbance Surveys Not Practical
Rare	Category A - 57 species <ul style="list-style-type: none"> • Manage All Known Sites • Pre-Disturbance Surveys • Strategic Surveys 	Category B - 222 species <ul style="list-style-type: none"> • Manage All Known Sites • N/A • Strategic Surveys 	Category E - 22 species <ul style="list-style-type: none"> • Manage All Known Sites • N/A • Strategic Surveys
Uncommon	Category C - 10 species <ul style="list-style-type: none"> • Manage High-Priority Sites • Pre-Disturbance Surveys • Strategic Surveys 	Category D - 14 species <ul style="list-style-type: none"> • Manage High-Priority Sites • N/A • Strategic Surveys 	Category F - 21 species <ul style="list-style-type: none"> • N/A • N/A • Strategic Surveys

Copies of the ROD and Final SEIS may be obtained by writing the Regional Ecosystem Office at PO Box 3623, Portland, Oregon 97208, or they can be accessed at <http://www.or.blm.gov/nwfpnepa>.

Plan Maintenance for fiscal year 2002

1. This plan maintenance revises the formal evaluation cycle for the RMP from a three year cycle to a five year cycle.

The RMP, in the Use of the Completed Plan section, established a three year interval for conducting plan evaluations. The purpose of a plan evaluation is to determine if there is significant new information and/or changed circumstances to warrant amendment or revision of the plan. The ecosystem approach of the RMP is based on long term management actions to achieve multiple resource objectives including habitat development, species protection and commodity outputs. The relatively short three year cycle has been found to be inappropriate for determining if long term goals and objectives will be met. A five year interval is more appropriate given the resource management actions and decisions identified in the RMP. The Annual Program Summaries and Monitoring Reports continue to provide the cumulative RMP accomplishments. Changes to the RMP will continue through appropriate plan amendments and plan maintenance actions. A five year interval for conducting evaluations is consistent with the BLM Land Use Planning Handbook.

The State Directors decision to change the evaluation interval from three years to five years was made on March 8, 2002. The next evaluation for the Roseburg District RMP will address implementation through September 2003.

2. For Survey and Manage standards and guidelines, Survey Protocols, Management Recommendations, changes in species categories or removal of species from Survey and Manage are issued and conducted in accordance with the Amendment to Survey and Manage, Protection Buffer, and other Mitigation Measures Standards and Guidelines Record of Decision of January 2002. These changes are transmitted through Instruction Memoranda from the Oregon State Office. These Instruction Memoranda are numerous and complex and would be unwieldy to list individually. All such Instruction Memoranda regarding the Survey and Manage Survey Protocols, Management Recommendations or changes in species status are incorporated as ongoing plan maintenance.

3. The management action/direction for Wild Turkey Habitat contained on page 39 of the RMP is removed. This refinement in the Resource Management Plan recognizes that the Rio Grande wild turkey is an introduced species that is not only thriving but in many areas the large numbers of wild turkeys have become a nuisance and have required relocation by the Oregon Department of Fish and Wildlife. This management action/direction is, therefore, removed because it is not needed for this species.
4. The management action/direction for Roosevelt elk contained on page 39 of the RMP is removed. This refinement in the Resource Management Plan recognizes that a combination of other management action/direction and land ownership patterns has resulted in achieving a thriving population of Roosevelt elk. Road closures for the benefit of elk populations have been found to be either unnecessary or accomplished through decommissioning or closure of roads for the purposes of watershed health. Limitation of the size of harvest units, distance to cover and minimum width of cover are being accomplished through the need to meet other aspects of the RMP including riparian reserves, survey and manage species requirements, special status species requirements, threatened or endangered species requirements and watershed considerations. Because of the thriving Roosevelt elk population it has not been found necessary to establish forage plots. Transplants of elk have not been found necessary to supplement existing numbers or to establish new local populations.
5. It is necessary to clarify the definition of an existing road for the purposes of road maintenance. Five road maintenance levels are assigned to roads. Roads which are assigned road maintenance Level I or Level 2 may, on occasion, have trees or other vegetation encroach on or become established within the road prism or on the road surface because of low traffic levels and an extended period between road maintenance. In such instances, road maintenance may be used to re-establish the utility of the road. It would not fit the definition of road maintenance to re-establish the utility of a road that has been closed through full decommissioning or obliteration and that has been removed from Roseburg District road records with approval from parties to existing road use agreements.

Plan Maintenance for fiscal year 2003

1. The RMP is maintained to correct an inconsistency between management action/direction and Federal Land Policy and Management Act (FLPMA) Section 203(a). All Westside RMPs were intended to be consistent with FLPMA Section 203(a), however, the Roseburg District RMP through an editing oversight is different in this respect. FLPMA Section 203(a) allows for disposal of lands through sales if they meet one of three criteria. The Roseburg RMP inadvertently added a requirement that land sales would, under certain circumstances, need to meet two of the three criteria (ROD/RMP pg. 68).

The penultimate full paragraph on page 68 of the ROD/RMP is replaced as follows:

Sell BLM-administered lands under the authority of FLPMA Section 203(a) which requires that at least one of the following conditions exists before land is offered for sale:

- The tract because of its location or other characteristics is difficult or uneconomical to manage as part of BLM-administered lands and is not suitable for management by another federal department or agency.
- The tract was acquired for a specific purpose and is no longer required for any federal purpose.
- Disposal of the tract would serve important BLM objectives. These include but are not limited to:
 - o Expansion of communities and economic development which cannot be achieved prudently or feasibly on lands other than BLM-administered lands and which

outweigh other public objectives.

- o Values including but not limited to recreation and scenic values which would be served by maintaining such tract in federal ownership.

Transfer land to other public agencies where consistent with public land management policy and where improved management efficiency would result.

Minor adjustments involving sales or exchanges may be made based on site-specific application of the land ownership adjustment criteria.

2. The actions that were intended for salvage under the Resource Management Plan are clarified as follows:

The Roseburg District Resource Management Plan sets forth the Timber Objective of "Provide for salvage harvest of timber killed or damaged by events such as wildfire, windstorms, insects or disease, consistent with management objectives for other resources." (ROD/RMP pg. 60).

For the General Forest Management Area and Connectivity/Diversity Blocks the ROD/RMP provides that "Silvicultural practices include the full range of practices consistent with the Land Use Allocations." (ROD/RMP pp. 150-151).

Additional direction is provided for salvage within Late-Successional Reserves and Riparian Reserves in the Resource Management Plan (ROD/RMP pp. 153-154).

The full range of silvicultural practices, including those pertaining to salvage which were intended to be used in the Resource Management Plan are set forth in Appendix E of the RMP/ROD and are also found in Smith, David M. 1962 The Practice of Silviculture which was incorporated by reference. (RMP/ROD pg. 154).

Salvage cuttings are made for the primary purpose of removing trees that have been or are in imminent danger of being killed or damaged by injurious agencies other than competition between trees. (Smith 1962, pg. 210).

Sometimes the mortality caused by the attack of a damaging agency does not take place immediately. This is particularly true where surface fires have occurred because the main cause of mortality is the girdling that results from killing the cambial tissues. As with other kinds of girdling, the top of the tree may remain alive until the stored materials in the roots are exhausted. It is usually a year or more before the majority of the mortality has occurred. It is, therefore, advantageous to have some means of anticipating mortality before it has occurred. The predictions must be based on outward evidence of injury to the crown, roots or stem. (Smith 1962, pg. 212)

In salvage operations, in addition to dead trees, trees that are dying or at a high risk of mortality may also be harvested. Outward evidence of injury that may cause mortality includes, but is not limited to scorched crown, fire damage that girdles any part of the bole, substantial fire damage at or near the root collar, damage to roots, and indicators of insect attack.

Salvage harvest should include all trees that present a safety hazard to life or property.

All salvage harvest that occurs within an existing road right-of-way will be conducted for the proper function, purpose and objectives of the right-of-way. Salvage harvest outside of a right-of-way will follow management action/direction for the appropriate land use allocation.

There is no requirement to meet green tree retention requirements for the matrix where the extent of dead and dying trees has made this impracticable. Green tree retention requirements in the Matrix will be met in salvage operations to the extent that healthy trees are available for retention.

3. The Beatty Creek Area of Critical Environmental Concern and Research Natural Area (ACEC/RNA) has been increased in size through acquisition of lands through a land exchange for the purpose of blocking up ownership and improving management opportunities. This action was anticipated in the Roseburg District Proposed Resource Management Plan Final Environmental Impact Statement (PRMP/EIS pg. 2-36) and is in accordance with management direction for the Beatty Creek ACEC/RNA set forth in the Roseburg District Record of Decision and Resource Management Plan (RMP pg. 50).

The Island Creek recreation site has been increased in size through acquisition of lands through a land exchange for the purpose of developing further recreational opportunities. This action was anticipated in the Roseburg District Proposed Resource Management Plan Final Environmental Impact Statement (PRMP/EIS pg. 2-43) and is in accordance with management direction for the Island Creek recreation site set forth in the Roseburg District Record of Decision and Resource Management Plan (RMP pg. 57).

The details regarding these actions are contained in the Beatty Creek/Island Creek Land Exchange environmental assessment (EA OR105-01-06, March 6, 2003) and associated decision record of March 17, 2003. This plan maintenance is effective as of the March 17 Decision Record.

4. From 1996 through 2003, the Roseburg District Monitoring Plan which is contained in Appendix I of the ROD/RMP has undergone a number of refinements and clarifications. These clarifications and refinements to the monitoring plan are part of adaptive management in which the monitoring questions that are no longer relevant are eliminated, needed questions are added or existing questions modified. These refinements all have the purpose to make monitoring as effective and relevant as possible.

The most recent refinement of the monitoring questions, in fiscal year 2003, has been to eliminate pre-implementation monitoring and to rely solely on post-implementation monitoring. This change has resulted from the adaptive management experience in which most projects that received pre-implementation monitoring were still not able to receive post-implementation monitoring as much as five years later because of protests and litigation. As a result, the monitoring information was no longer timely enough to be useful to management.

The current applicable monitoring questions are found in the most recent Annual Program Summary and Monitoring Report.

5. Ongoing district data base updates are incorporated as plan maintenance.

2004 Amendments to the Northwest Forest Plan including the Roseburg District RMP

Two amendments to the Northwest Forest Plan were made in 2004. These amendments were accomplished through separate environmental impact statements and records of decision.

Survey and Manage

The Survey and Manage standards and guidelines were removed from the plan through a Record of Decision of March 2004. The species that were included in the Survey and Manage standards and guidelines were referred to in the Roseburg RMP as "SEIS Special Attention Species". This decision will:

Continue to provide for diversity of plant and animal communities in accordance with the National Forest Management Act and conserve rare and little known species that may be at risk of becoming listed under the Endangered Species Act.

Reduce the Agencies' cost, time, and effort associated with rare and little known species conservation.

Restore the Agencies ability to achieve Northwest Forest Plan resource management goals and predicted timber outputs.

Aquatic Conservation Strategy

The provisions relating to the Aquatic Conservation Strategy (ACS) were clarified through a Record of Decision of March 2004. The Aquatic Conservation Strategy provisions had been interpreted to mean that decision makers must evaluate proposed site-specific projects for consistency with all nine ACS objectives, and that a project could not be approved if it has adverse short-term effects, even if the ACS objectives can be met at the fifth-field for larger scale over the long term. However, the ACS objectives were never intended to be applied or achieved at the site-specific (project) scale or in the short-term; rather they were intended to be applied and achieved at the fifth-field watershed and larger scales, and over a period of decades or longer rather than in the short-term. Indeed, failing to implement projects due to short-term adverse effects may frustrate the achievement of the goals of the ACS.

The decision clarifies the proper spatial and temporal scale for evaluating progress towards attainment of ACS objectives and clarifies that no-project-level finding of consistency with ACS objectives is required. The decision specifically reinforces the principle that projects must be considered in a long-term, fifth field watershed or larger scale to determine the context for project planning and National Environmental Policy Act (NEPA) effects analysis.

The decision will increase the ability of the Forest Service and the BLM to successfully plan and implement projects that follow Northwest Forest Plan principles and achieve all of the goals of the Northwest Forest Plan while retaining the original intent of the Aquatic Conservation Strategy.

Port-Orford Cedar

In February 2003, the U.S. District Court for the District of Oregon ruled that EIS for the Coos Bay District Resource Management Plan did not contain an adequate analysis of the effects of timber sales on the direct, indirect and cumulative impacts on Port Orford cedar and its root disease, *P. lateralis*. In order to correct this analysis deficiency and to ensure maintenance of Port Orford cedar as an ecologically and economically significant species on federal lands, BLM and its co-lead and cooperating agencies prepared the January 2004 Final Supplemental Environmental Impact Statement (FSEIS). The Record of Decision for this FSEIS was issued in May 2004. The Record of Decision replaced existing management direction for Port Orford cedar with management direction that addresses research, monitoring, education, cooperation, resistance breeding and disease controlling management practices to reduce the spread of the root disease.

Plan Maintenance for fiscal year 2004

1. Refinement and clarification of requirements for marbled murrelet surveys.

This plan maintenance pertains only to the management of potential marbled murrelet nesting structure within younger stands and only to situations where thinning prescriptions are proposed.

This plan maintenance clarifies and refines RMP requirements that were intended to protect marbled murrelet nesting habitat from habitat modifications but were not intended to prohibit or discourage habitat modifications that would benefit murrelet conservation. Logic presented by the Level 1 Team clearly indicates that this plan maintenance would have a negligible effect on murrelets. This action encourages the enhancement of habitat immediately surrounding potential nesting structure.

Management direction for marbled murrelet is found on page 48 of the Roseburg District Record of Decision and Resource Management Plan. Plan maintenance is appropriate for this action because the action clarifies the intention of current RMP requirements for the murrelets and the biological information provided by the Level 1 Team indicates that this refinement of requirements will not result in an expansion of the scope of resource uses or restrictions.

Management direction found on page 48 of the Roseburg District ROD/RMP is refined through the addition of the following language:

If the following criteria are met, then the action is not considered a habitat disturbing activity and no surveys for marbled murrelet are required.

I. Characteristics of Potential nesting Structure

A tree with potential structure has the following characteristics:

It occurs within 50 miles (81 km) of the coast (U.S. Fish & Wildlife Service 1997:32) and below 2,925 ft. (900 m) in elevation (Burger 2002);

It is one of four species: Western hemlock, Douglas-fir, Sitka spruce or western red cedar (Nelson & Wilson 2002:24, 44);

It is ≥ 19.1 in. (49 cm) (dbh) in diameter, > 107 ft. (33 m) in height, has at least one platform ≥ 5.9 in. (15 cm) in diameter, nesting substrate (e.g., moss, epiphytes, duff) on that platform, and an access route through the canopy that a murrelet could use to approach and land on the platform (Burger 2002, Nelson & Wilson 2002:24, 27, 42, 97, 100);

And it has a tree branch or foliage, either on the tree with potential structure or on a surrounding tree, that provides protective cover over the platform (Nelson & Wilson 2002:98 & 99);

Any tree that does not meet all of these characteristics would be unlikely to support nesting murrelets.

Because murrelets respond to the landscape-level availability of nesting habitat (Burger 1997, Burger 2002, Cooper *et al.* 2001 and Raphael *et al.* 2002), a tree with potential structure might provide murrelet nesting habitat depending on where it occurs on the landscape.

Increasing distance from the ocean becomes a negative factor in murrelet inland site selection after 12-20 miles (19.5 — 32.5 km) (Anderson 2003, Burger 2002, Humes 2003, U.S. BLM 2003, Willamette Industries 2003 and Wilson 2002).

Habitat with < 6 trees with potential structure within a 5-acre area, and located > 20 miles (32.5 km) inland, has a negligible likelihood of use by nesting murrelets (Anderson 2003, Humes 2003, U.S. BLM 2003, Willamette Industries 2003 and Wilson 2002).

Exclude potential nesting structure within the project area and apply protection measures to ensure that the proposed action would not adversely affect murrelets.

Design the unit prescription, for units with potential structure, in accordance with LSR management standards

Exclude from projects the removal or damage of potential nesting structure

Design habitat modifications that occur within a distance equal to one site-potential tree height of potential structure to protect and improve future habitat conditions. Examples include protecting the roots of trees with potential structure, and removing suppressed trees, trees that might damage potential structure during wind storms, and trees that compete with key adjacent trees that are, or will be, providing cover to potential nest platforms. Apply management actions that aid limb development and the development of adjacent cover.

Do not create any opening (*i.e.*, a gap ≥ 0.25 acre [0.10 ha] in size) within a distance equal to one site-potential tree height of potential structure.

ROSEBURG DISTRICT RESOURCE MANAGEMENT PLAN MONITORING FISCAL YEAR 2004



ROSEBURG DISTRICT
RESOURCE MANAGEMENT
PLAN MONITORING FISCAL
YEAR 2004

Monitoring Report Fiscal Year 2004 Executive Summary

Introduction

This document represents the seventh monitoring report of the Roseburg District Resource Management Plan for which the Record of Decision was signed in June 1995. This monitoring report compiles the results and findings of implementation monitoring of the Resource Management Plan for fiscal year 2004. This report does not include the monitoring conducted by the Roseburg District which is identified in activity or project plans. Monitoring at multiple levels and scales along with coordination with other BLM and Forest Service units has been initiated through the Regional Interagency Executive Committee (RIEC).

The Resource Management Plan monitoring effort for fiscal year 2004 addressed the 31 implementation questions relating to the land use allocations and resource programs contained in the Monitoring Plan. There are 51 effectiveness and validation questions included in the Monitoring Plan. The effectiveness and validation questions were not required to be addressed because some time is required to elapse after management actions are implemented in order to evaluate results that would provide answers. There is effectiveness and validation monitoring applicable to the RMP which is being developed and conducted through the Regional Ecosystem Office.

Findings

Monitoring results found full compliance with management action/direction in the twenty land use allocations and resource programs identified for monitoring in the plan. Monitoring results of three of the 31 implementation monitoring questions showed variation in the level of activities compared to the assumed levels in the Resource Management Plan.

One question pertained to timber resources: "By land use allocation, how do timber sale volumes, harvested acres, and the age and type of harvest compare to the projections in the Resource Management Plan?" Legal, administrative, and Northwest Forest Plan implementation challenges have limited the ability to offer timber sales at the levels anticipated in the Resource Management Plan.

Another question pertained to silvicultural activities: "Were the silvicultural (e.g. planting with genetically selected stock, fertilization, release, and thinning) and forest health practices anticipated in the calculation of the allowable sale quantity implemented?" These activities have varied from the assumed levels in the Resource Management Plan because of a variety of circumstances including the limited ability to offer timber sales, particularly regeneration harvest timber sales at the level anticipated.

A third question pertained to the Little River Adaptive Management Area. The Little River Adaptive Management Area has not met certain requirements of the RMP. It does not have a functioning advisory committee, it does not have an approved plan, it has not tested the innovative practices that would test the emphasis of Little River Adaptive Management Area.

Recommendations

The circumstances that have frustrated the district's ability to implement the underlying assumptions that form the basis of the Allowable Sale Quantity remain unresolved. The amendments to the Northwest Forest Plan that removed the Survey and Manage standards and guidelines and clarified the Aquatic Conservation Strategy should help to correct this situation. The inability to consult on actions likely to adversely affect listed fish species, however, continues to be problematic. There is currently no strategy to resolve the discrepancies associated with the Little River Adaptive Management. A Resource Management Plan revision that will address these issues is scheduled for completion in 2008.

Conclusions

Analysis of the fiscal year 2004 monitoring results concludes that the Roseburg District has complied with all Resource Management Plan management action/direction with the exceptions discussed above.

Monitoring Fiscal Year 2004

Introduction

This document represents the ninth monitoring report of the Roseburg District Resource Management Plan for which the Record of Decision was signed in June 1995. This monitoring report compiles the results and findings of implementation monitoring of the Resource Management Plan. Included in this report are the projects that took place from October 2002 through September 2004. Effectiveness and validation monitoring will be conducted in subsequent years when projects mature or proceed long enough for the questions asked under these categories of monitoring to be answered. The term “management action/direction” discussed in the Resource Management Plan and this monitoring report is approximately equivalent to the term “standards and guidelines” used in the Record of Decision for the Northwest Forest Plan.

Background

The BLM planning regulations (43 CFR 1610.4-9) call for the monitoring and evaluation of resource management plans at appropriate intervals.

Monitoring is an essential component of natural resource management because it provides information on the relative success of management strategies. The implementation of the RMP is being monitored to ensure that management actions: follow prescribed management direction (implementation monitoring), meet desired objectives (effectiveness monitoring), and are based on accurate assumptions (validation monitoring). The monitoring plan is contained in Appendix I, of the Roseburg District Record of Decision and Resource Management Plan. Some effectiveness and most validation monitoring will be accomplished by formal research. Certain effectiveness monitoring efforts are currently underway through the Regional Ecosystem Office. The nature of the questions concerning effectiveness monitoring requires some maturation of implemented projects in order to discern results. Effectiveness and validation monitoring will be conducted as appropriate in subsequent years. There is effectiveness and validation monitoring applicable to the RMP which is being developed and conducted through the Regional Ecosystem Office.

The monitoring process usually collects information on a sample basis. Monitoring could be so costly as to be prohibitive if not carefully and reasonably designed. Therefore, it is not necessary or desirable to monitor every management action or direction. Unnecessary detail and unacceptable costs are avoided by focusing on key monitoring questions and sampling procedures. The level and intensity of monitoring varies, depending on the sensitivity of the resource or area and the scope of the management activity.

Monitoring Overview

This monitoring report focuses on the 31 implementation monitoring questions contained in the Resource Management Plan. This report does not include the monitoring conducted by the Roseburg District which is identified in activity or project plans. The monitoring plan for the Resource Management Plan incorporates the Monitoring and Evaluation Plan for the Record of Decision for the Northwest Forest Plan.

Monitoring at multiple levels and scales along with coordination with other BLM and Forest Service units has been initiated through the Regional Interagency Executive

Committee (RIEC). At the request of the Regional Interagency Executive Committee, the Regional Ecosystem Office (REO) has implemented a regional-scale Implementation Monitoring Program.

The monitoring process is intended to be an iterative, adaptive process where we learn by doing. As results are evaluated, the process is expected to be adjusted as needed. Changes have been made in the monitoring questions, through plan maintenance, to increase clarity, efficiency, and usefulness of monitoring. Other adjustments may be made in district processes and procedures to increase our success in achieving implementation objectives.

The goal of management is to have very high compliance with all management action/direction or all standards and guidelines. Failure to achieve 100 percent compliance will result in the evaluation aspect of adaptive management to determine if adjustments are necessary to correct deficiencies.

Monitoring Process and Approach

The Resource Areas are responsible for the collection, compilation, and analysis of much of the data gained through monitoring activities. Resource Areas must report their findings and recommendations to the District for consolidation and publication in the Annual Program Summary.

The RMP Monitoring Plan consists of key questions for implementation, and effectiveness and validation monitoring relating to the various land use allocations and resource programs. The key questions are applied through monitoring requirements identified in the Monitoring Plan. Monitoring requirements describe appropriate sampling levels and how the key questions will be answered.

Some monitoring requirements indicate that the information for some key questions will be found in the Annual Program Summary. When combined with the Annual Program Summary, there is some repetition of information.

The Resource Management Plan directs that the Annual Program Summary will track the progress of plan implementation, state the findings made through monitoring, specifically address the implementation monitoring questions posed in each section of the Monitoring Plan and serve as a report to the public. The Resource Management Plan monitoring effort for Fiscal Year 2003 addressed the 31 implementation questions relating to the 20 land use allocations and resource programs contained in the Monitoring Plan.

There are 51 effectiveness and validation questions included in the Monitoring Plan. These questions generally require some time to elapse after management actions are implemented in order to evaluate results that would provide answers. Examples of effectiveness and validation questions in the Monitoring Plan are: "Is the forest ecosystem functioning as a productive and sustainable ecological unit?", "Is the health of the Riparian Reserve improving?", "Are stands growing at a rate that will produce the predicted yields?", "What are the effects of management on species richness (numbers and diversity)?" These kinds of questions are mostly not able to be addressed in the first years of plan implementation. Effectiveness and validation monitoring status, progress and results will be reported in subsequent year monitoring reports as appropriate. Certain effectiveness monitoring efforts are currently underway through the Regional Ecosystem Office.

Monitoring Results and Findings

The results of answering the implementation questions in the Monitoring Plan are not easily characterized. Some questions may be answered in a yes or no manner. Some questions because of lack of activity in a particular aspect of a resource program may not be applicable. Many questions ask for a brief status report of an activity. The status-type of questions often lack thresholds of acceptable activity. Examples of this type of question are: "What is the status of designing and implementing wildlife restoration projects?", "What is the status of the preparation of assessment and fire plans for the Late-Successional Reserves?"

Although the nature of the monitoring questions makes any meaningful statistical summary difficult, some generalizations and highlights may be made.

There are 31 implementation monitoring questions. Monitoring results found full compliance with management action/direction in nineteen of the twenty land use allocations and resource programs identified for monitoring in the plan. Monitoring results of three of the 31 implementation monitoring questions showed variation in the level of activities compared to the assumed levels in the Resource Management Plan.

One question pertained to timber resources: "By land use allocation, how do timber sale volumes, harvested acres, and the age and type of harvest compare to the projections in the Resource Management Plan?" The Roseburg District has been unable to harvest the timber sale volumes, acres, age classes or harvest types anticipated in the RMP.

Another question pertained to silvicultural activities: "Were the silvicultural (e.g. planting with genetically selected stock, fertilization, release, and thinning) and forest health practices anticipated in the calculation of the allowable sale quantity implemented?" As a result of the inability to implement the assumed harvest acres and harvest types, the silvicultural practices associated with the anticipated harvest not been implemented at the levels assumed in the RMP.

A third question pertained to the Little River Adaptive Management Area. The Little River Adaptive Management Area has not met certain requirements of the RMP. It does not have a functioning advisory committee, it does not have an approved plan, it has not tested the innovative practices that would test the emphasis of Little River Adaptive Management Area.

Discussion of Discrepancies

Timber Resources

The Roseburg District was unable to offer the full ASQ level of timber sales required under the RMP in fiscal year 2004, primarily due to the inability to consult on actions likely to adversely affect listed fish species. The district offered 7 timber sales for a combined volume of 22.7 MMBF. All of these sales were commercial thinnings except for one fire salvage sale. The district also sold negotiated timber sales for a combined volume of 1.3 MMBF. The value of all timber sold in fiscal 2004 was \$4,081,160.50. The monies associated with timber sales are paid as timber is harvested over the life of the contract, which is three years or less. Timber sale receipts collected by the Roseburg District in fiscal year 2004 from active harvesting totaled \$2,187,155.04 from Oregon and California Railroad, Coos Bay Wagon Road and Public Domain Lands.

Silvicultural Activities

Brush field Conversion - To date no acres have undergone conversion. It is not expected that any attempt would be made unless herbicides were available as a conversion tool. A vegetation EIS that would allow the use of herbicides for control of competing vegetation for forest management is currently being prepared at the national level.

Site Preparation (FIRE) - The number of acres prepared with prescribed fire, both broadcast treatment and pile treatment is about 34% of planned. A continued decline in trend is likely to continue due to less than expected levels of regeneration harvest and other resource concerns.

Site Preparation (OTHER) - The number of acres prepared with alternative site preparation techniques is about 3% of planned. Factors affecting this activity are the same as for site preparation, fire.

Planting (regular stock) - Total planted acres since 1995 without regard to genetic quality is at 47% of RMP assumed levels due to lack of planned RMP levels of timber harvest. Reforestation with genetically unimproved planting stock is 171% of planned. Total planting for 2004 is about 11% of the average annual level anticipated in the RMP because the Roseburg District has been unable to award any significant regeneration harvest timber sales since 1997. Regeneration harvests are the mechanism by which areas are made available for planting to start new forest stands for subsequent rotations. It is likely that in 2005, planting will remain far below planned levels because of the lack of the regeneration harvests which were anticipated in the RMP.

Planting (improved stock) - In fiscal year 2004, 18% of the acres reforested were planted with genetically improved Douglas-fir. All of the acres planted were in the GFMA land use allocation. Only GFMA acres are counted towards RMP monitoring goals since genetic improvement is assumed to contribute to ASQ only when done on GFMA acres. A phase in period for use of genetically improved Douglas-fir of 3 to 4 years was assumed to allow for older sales outside the GFMA land use allocation to be reforested and for seed orchards to reach production. However, planning for production of genetically improved stock has proved difficult due to the uncertainty of timber harvest timing. Seed must be sown one to three years prior to actual need. Due to decline in timber harvest overall and uncertainty in harvest timing, it is likely that this target will be approximately 20-30% of RMP levels by the end of the decade.

Maintenance/Protection - acres of maintenance/protection treatments is currently 130% of planned levels. It is anticipated that at this rate, assumed RMP levels would be exceeded by 10-20%.

Precommercial Thinning (PCT) - currently PCT is at 100% of planned RMP levels. It is expected that at a minimum, RMP goals will be met or slightly exceeded over the decade.

Pruning - Currently pruning accomplishments are 152% of assumed RMP levels. Depending on funding this trend could continue. It is expected that RMP levels will be exceeded by 50 to 60% by decade's end.

Fertilization - Currently fertilization accomplishments are about 42% of assumed RMP levels. Implementation of fertilization has been delayed by an administrative appeal of the proposed action. It is expected that accomplishments will be between 30-40% of planned RMP levels by decade's end.

Forest development, reforestation, silvicultural and timber stand improvement practices were accomplished in fiscal year 2004 through contracts valued at approximately \$763,000.

Little River Adaptive Management Area

The Little River Adaptive Management Area has not met certain requirements of the RMP. It does not have a functioning advisory committee, it does not have an approved plan, and it has not tested innovative practices that would test the emphasis of Little River Adaptive Management Area.

There is currently no strategy to resolve the discrepancies associated with the Little River Adaptive Management Area. This issue will be addressed in the RMP revision scheduled for completion in 2008.

Recommendations and Conclusions

Implementation monitoring of the Resource Management Plan since its adoption in 1995 through fiscal year 2004 has indicated that the Roseburg District has consistently implemented the Resource Management Plan with a high degree of success. The few discrepancies that have been discovered by monitoring during the past nine years have been examined closely and corrective action has been taken. However, the departure of timber sales and silvicultural activities from the level of actions assumed in the Resource Management Plan and the discrepancies associated with the Little River Adaptive Management Area are a concern to the management of the Roseburg District.

The departures from assumed level of activities related to timber sales and silviculture in the Resource Management Plan are largely a result of conditions and uncertainties that the Roseburg District does not directly control. The discrepancies related to the Little River Adaptive Management Area are a result of complex circumstances that will be carefully examined to determine an appropriate course of action. These issues will be addressed in the RMP evaluation scheduled for completion in 2008.

Hundreds of discrete actions are reviewed through the 31 implementation monitoring questions. The Roseburg District has achieved a remarkable record in implementing the Resource Management Plan. Analysis of the fiscal year 2004 monitoring results concludes that the Roseburg District has complied with Resource Management Plan management action/direction with a high degree of fidelity. Implementation of the Roseburg District Resource Management Plan involves the management of diverse natural resources through a complex mix of planning, budgeting, environmental analysis, compliance with many laws and regulations, on-the-ground actions, contracting, follow-up actions, monitoring and adaptive management that take place year after year and involves many BLM resource professionals and managers. The managers and employees of the Roseburg District take pride in the monitoring results of fiscal year 2004.

Resource Management Plan Monitoring Report



Resource Management Plan Monitoring Report

Riparian Reserves

Implementation Monitoring

Monitoring Question 1:

Is the width of the Riparian Reserves established according to RMP management direction?

Monitoring Requirement:

At least 20 percent of management activities within each resource area completed in the fiscal year will be examined to determine whether the width of the riparian reserves were maintained.

Monitoring Performed:

Swiftwater Resource Area — Cat Tracks Commercial Thinning

South River Resource Area — Flea Flicker Fire Salvage Sale

Findings:

Swiftwater Resource Area

Cat Tracks Commercial Thinning

Riparian Reserve boundaries were established on the ground in accordance with RMP management directions. The width of the Riparian Reserve is 200 feet upslope distance measured from intermittent streams. This distance was confirmed during post treatment surveys.

South River Resource Area

The Flea Flicker Fire Salvage sale was completed in FY 2004. Buffers were established on intermittent streams between units 1 and 3 and adjacent to unit 6, at a width of 160 feet. The sale was helicopter yarded and the riparian reserves are still intact after logging.

Conclusion:

Riparian reserve widths were established according to RMP management direction RMP requirements were met.

Monitoring Question 2:

Are management activities in Riparian Reserves consistent with SEIS Record of Decision Standards and Guidelines, and RMP management direction?

Monitoring Requirement:

At least 20 percent of management activities within Riparian Reserves completed in fiscal year 2003 will be examined, to determine whether the actions were consistent with the SEIS Record of Decision Standards and Guidelines and ROD/RMP management direction. In addition to reporting the results of this monitoring, the Annual Program Summary will also summarize the types of activities that were conducted or authorized within Riparian Reserves.

Monitoring Performed:

Swiftwater Resource Area — Cat Tracks Commercial Thinning

South River Resource Area — Weaver Road Commercial Thinning, Miscellaneous in-stream restoration projects.

Findings:

Swiftwater Resource Area

Cat Tracks Commercial Thinning

Approximately 37 acres of Density Management timber harvest activities took place within the Riparian Reserves and 120 trees (2 trees/acre) were girdled to create snags and CWD.

In order to meet Aquatic Conservation Strategy (ACS) (RMP, pg. 19) the Riparian Reserves were thinned to provide more light and growing space for large conifers and hardwoods, provide for snags and CWD now and in the future, and enhance understory development. Large diameter conifers and hardwoods were retained from all the species present. The harvest treatment varied the spacing to create canopy openings around conifers with large live limbs and live crowns, large hardwoods, and pockets of existing natural conifer regeneration. The basal area averages 115 square feet per acre, but range from 100 to 120. There were approximately 90 trees per acre retained, of which ten of the largest will provide future CWD. There were about 2700 cubic feet of CWD found in these stands in decay class 3 and 4 logs pre-harvest. The South Coast - Northern Klamath Late Successional Reserve Assessment (LSRA) recommends a range of CWD that ranges from 1,600 to 9,400 cubic feet per acre that should exist at stand age 80. The greatest amount is within one site tree height of perennial streams. The LSRA suggests leaving additional trees to provide for this amount of CWD in the future. In accordance with this guidance at least ten additional dominant trees were retained to provide future CWD. No more than 20 percent of the additional trees were felled or girdled at the time of treatment. On average 2 of the dominant trees per acre within the Riparian Reserve were cut or girdled after the logging operation was completed.

A riparian management zone (RMZ) was implemented and varied in width along all streams. Where appropriate, density management occurred within riparian management zone and follow the above LSRA recommendations, but no trees were removed. Selected trees were girdled or felled after the logging operation was completed to release residual trees and create CWD. These are also areas where over dense patches were allowed to self thin thru natural mortality. The width of the riparian management zone was at least 40 feet on intermittent, non-fish bearing streams and were extended to include steep slopes, unstable areas, buffers for survey and manage species, wetland buffers, etc.

Within the RR area outside of the riparian management zone, the plan to create and enhance accumulations of CWD followed the Late Successional Reserve Assessment recommendation and example (South Coast - Northern Klamath LSRA, pages 87 - 91. May, 1998).

Old residual trees from the original stand, standing dead trees (that do not conflict with OSHA standards), and large down logs were retained in both Riparian Reserve and GFMA land allocations (Hazard trees would be cut as per OSHA standards (logger Safety)).

A post-harvest site review by Swiftwater Area personnel in July of 2004, indicated large quantities of down trees either as a typical condition of the stand or as a result of the previous winter. In some cases, the logging operations within the Riparian Reserves had resulted in logs cut and not yarded out and/or tree tops knocked out by cables near the yarding corridors. The decision was made not to fell trees because there were fewer snags than there were downed logs. A Contractor was directed to only girdle (not fall) two trees per acre within the Riparian Reserves (inclusive of RMZ). The Contractor was to select from the dominant and co-dominant trees except that no trees 20 inches DBH and greater will be selected. Whenever possible, trees were selected that were damaged as a result of the logging operation (i.e. broken tops, stripped limbs, and missing bark). Girdling was limited within the RMZ, except in areas north side of the stream channels.

South River Resource Area — Where treatments within Riparian Reserves occurred, objectives were to reduce tree density to allow sufficient light to reach the forest floor to allow for germination and development of shrubs and trees that will form a secondary canopy layer. Such density management treatments in Riparian Reserves is consistent with management direction (ROD/RMP, p. 25) to "Apply silvicultural practices for Riparian Reserves to control stocking, reestablish and manage stands, and acquire vegetation characteristics needed to attain Aquatic Conservation Strategy Objectives." The action is also consistent with objectives 8 and 9 of the Aquatic Conservation strategy (ROD/RMP, p. 20) to "Maintain and restore the species composition and structural diversity of plant communities in riparian zones . . ." and to "Maintain and restore habitat to support well distributed populations of native plant, invertebrate, and invertebrate riparian dependent species."

Other management activities within Riparian Reserves completed in fiscal year 2004 included replacement of major culverts on St. Johns Creek and Lee Creek. Replacement of the culverts improved fish passage and erosion problems, consistent with objectives 2, 3, 4 and 5 of the Aquatic Conservation Strategy, and consistent with management direction from the ROD/RMP. Project design criteria and best management practices were employed to reduce potential sedimentation associated with construction activities (ROD/RMP, pp.134-36). Stream enhancement projects were completed during periods of low flow and were designed to minimize disturbance in the Riparian Reserve, while also improving stream habitat for listed fish species.

Conclusion:

RMP requirements were met.

Management activities in Riparian Reserves were consistent with SEIS Record of Decision Standards and Guidelines, and RMP management direction.

Comment/Discussion:

From what was observed on this sale, some leeway in CWD management treatments based on the conditions post logging would be preferred. Based on funding sources, post treatment surveys to create snags and downed logs within two years of logging operations would be recommended.

Monitoring Question 3:

A) Do all mining operations have a plan of operations that address the required issues identified in the RMP? B) Where alternatives exist, are structures, support facilities, and roads located outside the Riparian Reserves? C) Are all solid and sanitary waste facilities handled as outlined in management direction in the minerals management portion of the RMP?

Monitoring Requirement:

All approved mining Plans of Operations will be reviewed to determine if: A) both a reclamation plan and bond were required B) structures, support facilities and roads were located outside of Riparian Reserves, or in compliance with management action/direction for Riparian Reserves if located inside the Riparian Reserve C) and if solid and sanitary waste facilities were excluded from Riparian Reserves or located, monitored, and reclaimed in accordance with RMP management direction.

Monitoring Performed:

Program review.

Findings:

No plans of operations were filed during fiscal year 2004.

Conclusion:

RMP objectives were met.

Comment/Discussion:

None.

Late-Successional Reserves

Implementation Monitoring

Monitoring Question 1:

Were activities conducted within Late-Successional Reserves consistent with SEIS Record of Decision Standards and Guidelines, RMP management direction and Regional Ecosystem Office review requirements?

Monitoring Requirements:

At least 20 percent of the activities that were completed in fiscal year 2004 within Late-Successional Reserves will be reviewed in order to determine whether the actions were consistent with SEIS Record of Decision Standards and Guidelines, RMP management direction and Regional Ecosystem Office review requirements.

Monitoring Performed:

Swiftwater Resource Area — Review of Swiftwater late-successional reserve activities.

South River Resource Area — Review of Precommercial thinning, girdling, and reforestation surveys.

Findings:

Swiftwater Resource Area - Review of activities showed that the only projects within LSRs were tree planting, manual maintenance of seedlings, precommercial thinning and reforestation surveys. These activities meet the criteria for exemption from REO review or are consistent with the LSR Assessment and are also consistent with the SEIS ROD and RMP.

South River Resource Area - Precommercial thinning was completed on 1,544 acres within the LSRs. Certain species were reserved from cutting. Sprouting hardwood clumps were cut to one main sprout to maintain the hardwood component. Girdling of conifer trees between three and eight inches to variable density was completed on 101 acres. Girdling of trees between five and fifteen inches to differing residual densities of approximately 100, 50, and 30 trees per acre was completed on 83 acres. All the units were reviewed so that they met the treatment specifications and LSR objectives from LSR Assessments and the REO exemption criteria.

Reforestation surveys were conducted on 2,305 acres within the LSRs to monitor previous treatments and to recommend future treatments.

Conclusion:

RMP objectives were met.

Comment/Discussion:

None

Little River Adaptive Management Area

Implementation Monitoring

Monitoring Question 1

What is the status of the development of the Little River Adaptive Management Area plan, and does it follow management action/direction in the RMP ROD (pg 83-83)?

Monitoring Requirements

Report the status of AMA plan in Annual Program Summary as described in Question 1.

Monitoring Performed:

Little River AMA plan reviewed.

Findings:

In October, 1997 REO reviewed a draft of the Little River AMA plan. Both Roseburg BLM and Umpqua National Forest are currently operating under the draft plan. No strategy has been developed yet to finalize the draft plan.

Comment/Discussion:

The status of the Little River Adaptive Management Area may be re-examined in the RMP revision scheduled for 2005-2008.

Matrix

Implementation Monitoring

Monitoring Question 1:

Is 25-30 percent of each Connectivity/Diversity Block maintained in late-successional forest condition as directed by RMP management action/direction?

Monitoring Requirements

At least 20 percent of the files on each year's timber sales involving Connectivity/Diversity

Blocks will be reviewed annually to determine if they meet this requirement.

Monitoring Performed:

Swiftwater Resource Area — None required.

South River Resource Area — Bland Days Commercial Thinning.

Findings:

Swiftwater Resource Area — N/A

South River Resource Area:

Unit #1 of the Bland Days Commercial Thinning falls within Connectivity/Diversity Block #38. This block currently has 45 percent maintained in late-successional condition. Thinning of unit #1 will result in no change to this percentage.

Conclusion:

RMP requirements have been met.

Comment/Discussion:

None.

Air Quality

Implementation Monitoring

Monitoring Question 1:

Were efforts made to minimize the amount of particulate emissions from prescribed burns?

Monitoring Requirements

At least twenty percent of prescribed burn projects carried out in fiscal year 2003 will be monitored to assess what efforts were made to minimize particulate emissions.

Monitoring Performed:

Swiftwater Resource Area — Cat Tracks Commercial Thinning:

Landing decks and piles were burned in the fall of 2004 as per Timber Sale Contract requirements. The slash and debris from each Yarding area was pulled up adjacent to the road, piled and covered. In late October after 5 inches of rain, the piles were burned and 90% consumption was attained. All burning was approved by Oregon Dept. of Forestry (ODF) and done with the requisite smoke management clearance issued by DFPA.

South River Resource Area — Program Review.

Findings:

Swiftwater Resource Area — Yes, particulate emissions from the prescribed burn were minimized. Pile burning was completed on the Cat Tracks Timber Sale in the fall of 2004 after 5 inches of rain had soaked adjacent fuels. Slash and landing debris had been piled and covered, and burned with near complete combustion the day of ignition. Smoke clearance was obtained from ODF and the piles were ignited during weather conditions that favored good smoke dispersion. An unstable air mass provided good vertical lifting and mixing and helped disperse the smoke. No mop-up was planned or needed as seasonal rains extinguished the small amount of slash not consumed by fire. No smoke intrusion occurred within any of the "Designated Areas" managed by the State.

South River Resource Area - No broadcast burning occurred during fiscal year 2004. Prescribed burning of landing piles occurred on pre-commercial thinning units during November and December of 2003. Landing piles were burning during the wet season and during weather conditions that favored good smoke dispersion. Some landing piles were carried over for burning in fiscal year 2005 to allow firewood removal. Other landings were carried over to provide summer curing of the debris to facilitate more complete combustion. These actions resulted in reduced emissions.

Conclusion:

RMP requirements were met.

Comment/Discussion:

None.

Monitoring Question 2:

Are dust abatement measures used during construction activities and on roads during BLM timber harvest operations and other BLM commodity hauling activities where needed?

Monitoring Requirements:

At least 20 percent of the construction activities and commodity hauling activities carried out in fiscal year 2004 will be monitored to determine if dust abatement measures were implemented where needed.

Monitoring Performed:

Program review.

Findings:

Swiftwater Resource Area - No road construction activities or timber harvest operations occurred during fiscal year 2004 that required dust abatement measures.

South River Resource Area:

No timber harvest operations occurred during fiscal year 2004 that required dust abatement measures. Two major culvert replacement projects required temporary bi-pass roads during construction. Watering of the bypass roads were done to eliminate impacts from road dust to nearby residences.

Conclusion:

RMP requirements were met.

Comment/Discussion:

None.

Water and Soils

Implementation Monitoring

Monitoring Question 1:

Are site specific Best Management Practices (BMP), identified as applicable during interdisciplinary review, carried forward into project design and execution?

Monitoring Requirement:

At least 20 percent of the timber sales and silviculture projects completed in the fiscal year will be selected for monitoring to determine whether or not Best Management Practices were planned and implemented as prescribed in the E.A.. The selection of management actions to be monitored should include a variety of silvicultural practices, Best Management Practices, and beneficial uses likely to be impacted where possible given the monitoring sample size.

Monitoring Performed:

Swiftwater Resource Area — Cat Tracks Commercial Thinning.

South River Resource Area — Angel Hair Commercial Thinning.

Findings:

Swiftwater Resource Area: Soil related BMPs identified as applicable during the interdisciplinary review and the EA process was carried forward into the project design and contract. All of the BMPs were implemented except the following.

Contract special provision 41(D)(3b) and 41(E)(2) required temporary unsurfaced spurs to be waterbarred and blocked to traffic by the end of the dry season of construction and harvesting. The unsurfaced Spur # 2 into Unit 2 had some water bars but was not blocked. Vehicle traffic did occur on it under wet conditions causing some rutting and erosion. Streams were not affected. All the trees in the incipient channels and zone of moisture accumulation in one very steep headwall in Unit 7C were to be retained for slope stability as analyzed in the EA. These trees were painted for retention by the soil scientist. Most of these and other retained trees on one half of the headwall were subsequently removed by the logger with the permission of the authorized officer to establish cable yarding corridors through the Riparian Management Zone. The closeness of the headwall to the landing above (about 150 feet) was part of the problem because of the radiating pattern of yarding trails from it. The headwall will be monitored for landslides.

South River Resource Area - Angel Hair Commercial Thinning: The site specific BMP's identified during interdisciplinary review were carried forward into project design and were completed as designed. These included amelioration of compacted soil areas in skid trails, landings, and temporary roads. Temporary roads were tilled, had access restricted and were covered with slash to prevent erosion and enhance soil biology.

Conclusion:

Requirements were met.

Comment/Discussion:

Because erosion from Spur #2 is not affecting streams, it will be allowed to heal naturally. Regarding extra painted trees for slope stability, a chart on slope stability concerns has been devised to improve the communication between the soil scientist and the contract administrator. The headwall will be monitored for landslides.

Monitoring Question 2:

Have forest management activities completed in the fiscal year implemented the management direction for ground-based systems and mechanical site preparation as listed in the fiscal year 2001 Plan Maintenance?

Monitoring Requirement:

All ground-based activities, including mechanical site preparation, will be assessed after completion to determine if management direction has been implemented.

Monitoring Performed:

Swiftwater Resource Area — Program review showed that the following timber sales in Swiftwater RA were ground-based logged during FY 2004: East Fork, Cat Tracks, Hayhurst and Copeland Divide Commercial Thins. The East Forks and Cat Tracks ground-based operations were completed and are covered under this monitoring report. The other two will come under the 2005 report after their completion.

South River Resource Area — Program review showed that the following timber sales in South River RA were ground-based logged during FY 2004; Angel Hair Commercial Thinning.

Findings:

Swiftwater Resource Area — For East Fork unit 21A, harvester-forwarder operations on 36 acres began after May 15 but when soil moisture conditions were too high. Operations were completed under dry conditions. Resultant moderate to heavy compaction varied from eight percent under the moistest condition (eight acres) to about one percent under the dry conditions (seven acres). Subsoiling of the most impacted trails was done using an excavator on five acres before that operation was shut down due to fall rains. More subsoiling is planned for the 2005 dry season where heavy compaction is the predominant condition. The harvester and forwarder crossed two wet spots with ponded water and one seep causing rutting up to 30 inches depth however these were not identified in the planning process. For East Fork unit 27A, harvester-forwarder operations began in September just after unseasonably high levels of precipitation fell. A couple acres were done under high soil moisture levels and insufficient slash coverage in trails before operations were stopped. After a shutdown period to allow drying of the surface to below field capacity, better results were obtained. After educating the operators of the need, better slash coverage in trails was obtained. Subsoiling is planned for the 2005 dry season to mitigate for areas of heavy compaction in trails.

For Cat Tracks, the shovel yarding on 2.5 acres had overall satisfactory results with about four percent receiving moderate to heavy compaction. The trail segments that had most of the moderate to heavy compaction were created under moist soil conditions and had little slash coverage. No subsoiling is planned at this time.

South River Resource Area — Soil productivity was improved or maintained by selectively using the 8 BMP's listed in the fiscal year 2001 Plan Maintenance. Skid roads, landings, old jeep trails, and temporary roads were tilled as directed by the contract administrator. Temporary roads, jeep roads, and skid trails were also covered with slash to prevent erosion and enhance soil biology.

Conclusion:

All RMP requirements were met.

Comment/Discussion:

The three factors that most influenced soil compaction were slash coverage, soil moisture levels, and the number of equipment passes. Where dry soil moisture conditions and good slash coverage in trails (greater than 90 percent) intersected during ground-based operations there were low amounts of soil compaction. Conversely, where high soil

moisture and low slash levels intersected, high amounts of soil compaction occurred. Progress has already been made on improving communication and coordination between the contract administrator and the soil scientist. The resource area has identified the following to further improve coordination/communication to reduce soil compaction in the future.

- The contract administrator's perceptions of acceptable soil moisture levels and compaction needs to be calibrated with that of the soil scientist.
- The contract administrator needs to inform the soil scientist early in the dry season about what ground-based operations are about to begin. This notification would allow the soil scientist to give input to reduce soil compaction.
- The contract administrator needs to have the soil scientist monitor ground-based operations early on for calibration purposes and for educating the operators. The ground-based equipment operators were not aware that they were sometimes creating soil impacts that could shut them down since most of their work is done on private timber lands where standards covering soil compaction are quite different. The contract administrator and the soil scientist resolved the communication and coordination problems in the latter part of the 2004 dry season. The soil scientist monitoring transects in coordination with the contract administrator helped calibrated and educate the Harvester-Forwarder operators at East Forks 27A about the relationship between compaction, soil moisture and slash levels.

The resource area will also further improve identification of wet areas during the interdisciplinary process and during the on-the-ground implementation to reduce soil compaction in the future.

Monitoring Question 3:

Have the Best Management Practices related to site preparation using prescribed burning, as listed in the fiscal year 2001 Plan Maintenance, been implemented on prescribed burns conducted during fiscal year 2004? If prescribed burning took place on highly sensitive soils was the prescription to minimize impacts on soil properties implemented successfully?

Monitoring Requirement:

All prescribed burning on highly sensitive soils carried out in the last fiscal year will be assessed to answer question 3.

Monitoring Performed:

Swiftwater Resource Area — Program review showed that no prescribed burning was conducted on highly sensitive soils within the Cat Tracks Timber Sale area

South River Resource Area — Program review showed that no prescribed burning for site preparation occurred in fiscal year 2004.

Findings:

Swiftwater Resource Area — The above mentioned timber sale did not have any burning on highly sensitive soils.

Conclusion:

RMP requirements were met.

Comment/Discussion:

None.

Monitoring Question 4:

What is the status of closure, elimination or improvement of roads and is the overall road mileage within Key Watersheds being reduced?

Monitoring Requirement:

The Annual Program Summary will address Implementation Question 4.

Monitoring Performed:

Program review.

Findings:

The following road definitions apply to Tables 30-33. These tables summarize road activities for the district and show how overall road mileage within Key Watersheds is reduced.

Definitions

Improve Drainage &/or Road Surfacing - Road improvements in which extra drainage structures are added and/or rock is added using BMPs in order to raise the road level to current RMP standards, effectively reduce sedimentation, and increase infiltration of intercepted flows.

Decommission - Existing road segment will be closed to vehicles on a long-term basis, but may be used again in the future. Prior to closure, the road will be prepared to avoid future maintenance needs; the road will be left in an "erosion-resistant" condition which may include establishing cross drains, and removing fills in stream channels and potentially unstable fill areas. Exposed soils will be treated to reduce sedimentation. The road will be closed with a device similar to an earthen barrier (tank trap) or equivalent.

Full Decommission - Existing road segments determined to have no future need may be subsoiled (or tilled), seeded, mulched, and planted to reestablish vegetation. Cross drains, fills in stream channels and potentially unstable fill areas may be removed to restore natural hydrologic flow. The road will be closed with a device similar to an earthen barrier (tank trap) or equivalent.

Conclusion:

RMP requirements to reduce overall road mileage within Key Watersheds were met.

Table 26. Swiftwater Resource Area Key Watershed Completed and Contract Awarded Road Projects through Fiscal Year 2004.

5th Field Watershed	Permanent New Road Construction (miles)	Decommission of Existing Roads (miles)	Full Decommission of Existing Roads (miles)	Road Improvements (Drainage, Surfacing, etc.) (miles)
Canton Creek*	0.2	2	27.6	22
Upper & Middle Smith River	1.5	6.3	10.1	6.8
Total	1.7	8.3	37.7	28.8

Table 27. Swiftwater Non-Key Watershed Completed and Contract Awarded Road Projects through Fiscal Year 2004.

5th Field Watershed	Permanent New Road Construction* (miles)	Decommission of Existing Roads (miles)	Full Decommission of Existing Roads (miles)	Road Improvements (Drainage, Surfacing, etc.) (miles)
Elk Creek	0.8	2.8	1.4	15.1
Upper Umpqua	0.5	1.4	3.9	23.9
Calapooya	1.2	0.0	0.2	16.0
Little River *	0.6	0.2	2.9	50.6
Rock Creek	0.0	0.9	0.9	9.0
Lower North Umpqua	0.0	12.3	0.6	2.9
Middle North Umpqua	0.2	0.4	2.4	5.7
R/W Plats 95-97	5.3	0.0	0.0	0.0
Total	8.6	18.0	12.3	123.2

* Figures include USFS completed projects within watershed.

Table 28. South River Key Watershed Completed and Contract Awarded Road Projects through Fiscal Year 2004.

5th Field Watershed	Permanent New Road Construction* (miles)	Decommission of Existing Roads (miles)	Full Decommission of Existing Roads (miles)	Road Improvements (Drainage, Surfacing, etc.) (miles)
Lower Cow Creek	0.3	0.0	0.0	1.2
South Umpqua River	2.7	1.4	6.0	42.1
Middle South Umpqua River / Dumont Creek	0.7	0.4	0.7	2.3
Total	3.7	1.8	6.7	45.6

* 1.0 miles of the total 1.8 miles of permanent road were built by private Right-of-way holders.

Table 29. South River Non-Key Watershed Completed and Contract Awarded Road Projects through Fiscal Year 2004.

5th Field Watershed	(miles)	(miles)	(miles)	(miles)
Lower Cow Creek	5.6	0.0	0.0	5.6
Middle Fork Coquille River	1.8	0.8	0.0	14.7
Myrtle Creek	3.1	0.3	4.9	30.9
Middle South Umpqua River / Rice Creek	2.9	0.4	0.1	6.5
Ollala Creek / Lookingglass Creek	1.4	0.8	3.0	17.6
South Umpqua River	1.9	0.2	2.3	8.9
Total	16.7	2.5	10.3	84.2

* 9.5 miles of the total 11.7 miles of permanent road were built by private Right-of-way holders.

Wildlife Habitat

Implementation Monitoring

Monitoring Question 1:

Are suitable (diameter and length) numbers of snags, coarse woody debris, and green trees being left, in a manner as called for in the SEIS Record of Decision Standards and Guidelines and RMP management direction?

Monitoring Requirement:

At least 20 percent of regeneration harvest timber sales completed in the fiscal year will be examined to determine snag and green tree numbers, heights, diameters, and distribution within harvest units. Snags and green trees left following timber harvest activities (including site preparation for reforestation) will be compared to those that were marked prior to harvest.

The same timber sales will also be examined to determine down log retention direction has been followed.

Monitoring Performed:

Program review.

Findings:

No Regeneration harvest timber sales occurred during fiscal year 2004.

Conclusion:

RMP objectives are being met.

Comment/Discussion:

None.

Monitoring Question 2:

Are special habitats being identified and protected?

Monitoring Requirement:

At least 20 percent of BLM actions, within each resource area, on lands including or near special habitats will be examined to determine whether special habitats were protected.

Monitoring Performed:

Swiftwater Resource Area — Cat Tracks Commercial Thinning

South River Resource Area — Flea Flicker Fire Salvage

Findings:

Swiftwater Resource Area - A one acre wetland was discovered during the timber sale planning process. A buffer of trees around the area protected the wetland and yarding through the wetland was prohibited.

South River Resource Area - The Flea Flicker Fire Salvage was evaluated to locate special habitats like ponds, marshes, cliffs, springs. These special habitats were not found but evaluation did find habitat suitable for snail species in the Survey and Manage list (IM-OR-2004-034). Surveys found one specimen of the Chace sideband snail in Flea Flicker unit A. Trees, vegetative cover and down wood were marked to protect and mitigate impacts from the salvage harvest on the microhabitat conditions of the snail site.

Conclusions:

RMP requirements were met.

Comment/Discussion:

None.

Fish Habitat

Implementation Monitoring

Monitoring Question 1:

Have the project design criteria to reduce the adverse impacts to fish been implemented?

Monitoring Requirements:

At least 20 percent of the timber sales completed in the fiscal year will be reviewed to ascertain whether the design criteria were carried out as planned.

Monitoring Performed:

Swiftwater Resource Area — Cat Tracks Commercial Thinning:

South River Resource Area — Flea Flicker Fire Salvage

Findings:

Swiftwater Resource Area - Cat Tracks Commercial Thinning

An environmental assessment (EA) was completed and the project sold during fiscal year 2002. Generally, habitat was protected from logging damage by directionally felling trees that were within 100' of streams away from the streams and yarding logs away from or parallel to the streams (i.e. logs would not be yarded across streams). In Cat Tracks Unit 7C logs were yarded across streams, however logs were fully suspended to avoid any ground disturbance within or immediately adjacent to stream channels.

Based on site review by the Area hydrologist, soil scientist, and fisheries biologist, a 40 ft. minimum (non-fish bearing) streamside Riparian Management Zone (no-harvest buffer) was established long all stream channels. There were no fish-bearing streams located adjacent to the harvest units.

No road building took place within the Riparian Reserves.

Log hauling was restricted on unsurfaced roads to the dry season (normally May 15 to Oct. 15). This season could have been adjusted if unseasonable conditions occur (e.g. an extended dry season or wet season). Operations could have been suspended during periods of heavy precipitation, however because of dry weather this was unnecessary.

Site review (29 July 2004) by the Area hydrologist and fisheries biologist after the logging activity was completed indicated that there were no adverse impacts to the stream channels, including impacts associated with the full suspension yarding in Unit 7C.

South River Resource Area — Flea Flicker Fire Salvage

The Environmental Assessment was completed in FY 04 and the contract was sold in March of 2004. Contract specifications to protect fish and aquatic resources included ditch and cross drain maintenance, installation of water bars in the road surface, use of straw bales in the ditch line, and installing crushed rock at cross drain outlets.

Where noticeable channels were forming in the road, water dips were installed to direct water off of the road surface. At several cross drain outlets, crushed rock was placed to dissipate energy and allow any sediment carried in the ditch to settle out. The ditch was kept well vegetated and straw bales were placed in the ditch to capture and retain sediment carried in the ditch. Straw bales were removed from the ditch following the completion of haul.

The haul routes used existing roads and their use was restricted to the dry season only. Due to dry weather conditions, haul was allowed to take place prior to the onset of the

dry season, normally beginning May 15. The contract administrator was given authority to stop hauling if the water appeared in the ditch line or if significant rainfall occurred.

Full riparian reserves were established on all streams near the salvage units. Yarding of trees was accomplished using helicopters over a period of about 10 days.

Conclusions:

RMP objectives have been met.

Comment/Discussion:

None.

Special Status Species Habitat

Implementation Monitoring

Monitoring Question 1:

Do management actions comply with plans to recover threatened and endangered species?

Monitoring Requirement:

At least 20 percent of timber sales which were completed in the fiscal year and other relevant actions will be reviewed on the ground after completion to ascertain whether the required mitigation was carried out as planned.

Monitoring Performed:

Swiftwater Resource Area — Cat Tracks Commercial Thinning:

South River Resource Area — Review of biological staff reports, biological opinion, environmental assessment, RMP, for the Flea Flicker Fire salvage

Findings:

Swiftwater Resource Area - Cat Tracks Commercial Thinning

A review of the EA for Cat Tracks showed that a number of special status species were evaluated in the analysis process.

Wildlife

Surveys for Marbled Murrelets and Northern Spotted Owls were completed according to protocols and none of the sale area was found to be occupied by either species. Snags and remnant trees were retained during the harvest operation to provide for future habitat for murrelets, owls and other cavity dependent species. Seven active red tree vole sites were found within the preliminary sale boundaries and approximately 85 acres of red tree vole buffers were established according to the Survey and Manage recommendations at the time.

Botany

Surveys were completed for Survey and Manage and Special Status Species but none were found.

South River Resource Area - Flea Flicker Fire Salvage

The Flea Flicker fire salvage followed ROD RMP direction to maintain the health, diversity, and productivity of public lands. An environmental assessment (Roseburg District OR-105-04-06) was completed December 2003. The project was evaluated and effects on Federally-threatened northern spotted owl, marbled murrelet and bald eagle were not anticipated. Specific mitigations to protect special status species habitat were not required.

Conclusions:

RMP requirements were met.

Comment/Discussion:

None

Monitoring Question 2:

What coordination with other agencies has occurred in the management of special status species?

Monitoring Requirement:

The Annual Program Summary will address Implementation Question 2 (see the Coordination and Consultation section of the Annual Program Summary).

Monitoring Performed:
Program Review.

Findings:

Swiftwater Resource Area - BLM coordinates regularly with ODFW, USFWS, NMFS, USFS and DEQ. Research projects and monitoring of the white-tailed deer are being implemented by ODFW and USFWS on the North Bank Habitat Management Area.

Conclusions:

RMP requirements were met.

Comment/Discussion:

None

Cultural Resources

Implementation Monitoring

Monitoring Question 1:

During forest management and other actions that may disturb cultural resources, are steps taken to adequately mitigate disturbances?

Monitoring Requirements

At least 20 percent of the timber sales and other relevant actions (e.g., rights-of-way, instream structures) completed in the fiscal year will be reviewed to evaluate documentation regarding cultural resources and American Indian values and decisions in light of requirements, policy and SEIS Record of Decision Standards and Guidelines and RMP management direction. If mitigation was required, review will ascertain whether such mitigation was incorporated in the authorization document and the actions will be reviewed on the ground after completion to ascertain whether the mitigation was carried out as planned.

Monitoring Performed

Swiftwater Resource Area — Cat Tracks Commercial Thinning

South River Resource Area — Angel Hair Commercial Thinning

Findings:

Swiftwater Resource Area - Cat Tracks Commercial Thinning

A cultural project tracking form under the Oregon BLM/SHPO cultural resource protocol was completed. It documents that field exams, site file reviews and inventory record reviews were conducted and approved by the area Cultural Resource Specialist and Field Manager. No cultural resources were found in the project area. In consultation with the State Historic Preservation Office the project was found to have "No Effect" on cultural resources. The project was approved to proceed with no follow-up monitoring required.

South River Resource Area - A cultural project tracking form under the Oregon BLM/SHPO cultural resource protocol was completed for all five projects. It documents that field exams, site file reviews, and inventory record reviews were conducted by the area Cultural Resource Specialist. No cultural resources were found in four of the projects. At Kola's Ridge a potential Historic Rock Carving was identified. No landings or road renovation beyond the running surface of the road was to take place near the rock carvings. All five projects were consulted with the State Historic Preservation Office (SHPO) who agreed with the "no effect" determination for all of the projects. No mitigation was required and no follow-up monitoring is required on four of the projects. Kola's Ridge Rock carvings were examined on September 10, 2003, and it was determined that the project had no effect on the rock carvings.

South River Resource Area — Angel Hair Commercial Thinning

A cultural project tracking form under the Oregon BLM/SHPO cultural resource protocol was completed. It documents that field exams, site file reviews and inventory record reviews were conducted and approved by the area Cultural Resource Specialist and Field Manager. No cultural resources were found in the project area. The project was approved to proceed with no follow-up monitoring required.

Conclusion:

RMP requirements were met.

Comment/Discussion:

None.

Visual Resources

Implementation Monitoring

Monitoring Question 1:

Are visual resource design features and mitigation methods being followed during timber sales and other substantial actions in Class II and III areas?

Monitoring Requirements

Twenty percent of the files for timber sales and other substantial projects in Visual Resource Management Class II or III areas completed in the fiscal year will be reviewed to ascertain whether relevant design features or mitigating measures were included.

Monitoring Performed

Program review of all Fiscal Year 2004 actions.

Findings:

There was one major action or timber sale in 2004 that impacted Visual Resource Management Class II lands which required Visual Resource Management analysis (Flea Flicker fire salvage). VRM was addressed in the EA and all live screen trees were retained along the I-5 corridor. All other Visual Resource Management analysis occurred in Visual Resource Management Class IV areas.

Conclusion:

RMP requirements were met.

Comment/Discussion:

None.

Rural Interface Areas

Implementation Monitoring

Monitoring Question 1:

Are design features and mitigation measures developed and implemented to avoid/minimize impacts to health, life and property and quality of life and to minimize the possibility of conflicts between private and federal land management?

Monitoring Requirements

At least 20 percent of all actions completed in the fiscal year within the identified rural interface areas will be examined to determine if special project design features and mitigation measures were included and implemented as planned.

Monitoring Performed:

All Fiscal Year 2004 projects.

Findings:

Swiftwater Resource Area -

No actions occurred within rural interface areas in the Swiftwater Resource Area.

South River Resource Area -

No actions occurred within rural interface areas in the South River Resource Area.

Conclusions:

RMP objectives were met.

Comment/Discussion:

None.

Recreation

Implementation Monitoring

Monitoring Question 1:

What is the status of the development and implementation of recreation plans?

Monitoring Requirements

The Annual Program Summary will address implementation question 1.

Monitoring Performed:

Program review of all established recreation sites.

Findings:

Swiftwater Resource Area — A revision of the North Umpqua Recreation Area Management Plan was completed in 2003 and finalized/ implemented in 2004. The Umpqua Recreation Area Management Plan has not been started. All established recreation sites were evaluated for safety and customer use. Mitigating measures were initiated as required, i.e. hazard trees pruned, topped or cut. Two new campgrounds were developed adjacent to Millpond and Tyee Campgrounds for group use: Lone Pine and Eagleview Recreation Sites. Cooperative efforts continued with the public and with local county, state and federal agencies. The host program continued to augment customer service at seven campgrounds.

South River Resource Area — An assessment of four popular use areas for Off-Highway Vehicles was completed in Spring of 2004. The field assessment was done with District and Oregon State grant funds.

Conclusion:

RMP requirements were met.

Comment/Discussion:

Recreation statistics are documented in the 2002 Recreation Management Information System (RMIS).

Special Areas

Implementation Monitoring

Monitoring Question 1:

Are BLM actions and BLM authorized actions/uses near or within special areas consistent with RMP objectives and management direction for special areas?

Monitoring Requirements

Review program and actions for consistency with RMP objectives and direction.

Findings:

Swiftwater Resource Area — The Roseburg District has 10 special areas that total approximately 12,177 acres, including the 6581 acre North Bank Habitat Management Area / ACEC. Implementation of the North Bank Monitoring Plan took place in several phases:

- Permanent vegetation monitoring plots were established in the North Bank Habitat Management Area / ACEC and baseline data was collected. This information is used to characterize existing vegetation and to monitor long-term vegetation change within the ACEC as management activities of burning, noxious weed removal, planting and seeding take place to improve and increase Columbian white-tailed deer habitat.
- Permanent greenline and channel cross-section plots were established along streams to monitor vegetation and channel changes.
- Special Status Species plant populations were monitored through permanent plots and comprehensive census to assess change.

Conclusion:

RMP requirements were met.

Monitoring Question 2:

What is the status of the preparation, revision, and implementation of Areas of Critical Environmental Concern management plans?

Findings:

Databases for vascular plant checklists were developed for all ACEC/RNAs. Draft management plans have been completed for four ACEC/RNAs. Three of these draft plans were finalized in fiscal year 2001. The EIS ROD was signed and a management plan was completed for the North Bank Area of Critical Environmental Concern in fiscal year 2001.

Conclusion:

RMP requirements were met.

North Umpqua Wild and Scenic River

Implementation Monitoring

Monitoring Question 1:

Are BLM actions and BLM authorized actions consistent with protection of the Outstandingly Remarkable Values of designated, suitable, and eligible, but not studied, rivers?

Monitoring Requirements

Annually, the files on all actions and research proposals within and adjacent to Wild and Scenic River corridors will be reviewed to determine whether the possibility of impacts on the Outstandingly Remarkable Values was considered, and whether any mitigation identified as important for maintenance of the values was required. If mitigation was required, the relevant actions will be reviewed on the ground, after completion, to ascertain whether it was actually implemented.

Monitoring Performed:

Monitoring of recreation use in the North Umpqua River was conducted between May 20 and Sept 20, 2003 through a Cooperative Management Agreement between the Roseburg District BLM and the Umpqua National Forest, North Umpqua Ranger District. BLM had the lead on monitoring in the entire river corridor; USFS had the lead on issuing Special Recreation Permits to commercial river outfitters. Employees engaged in monitoring included one full time BLM River Manager and one temporary USFS person. BLM provided funds for the salary of the USFS temporary employee.

Objectives of the river survey were to:

- a. Monitor the five outstanding remarkable values on the North Umpqua W&SR, as listed above.
- b. Provide a BLM/USFS presence on the river to contact, inform, and educate users.
- c. Document and monitor visitor use including commercial and public use.
- d. Coordinate management of the river between the BLM and Umpqua National Forest.
- e. Identify, minimize and manage safety hazards and user conflicts on the North Umpqua River.

Findings:

- 2004 Use:
- Boating use (visits) for entire W&SR length
Commercial (32% of use) 2,125 visits (vs. 2,384 in 2003).
Non-commercial (68% of use) 4,511 visits (vs. 3,614 in 2003).
 - Fishing Use: No information was gathered during the 2004 season.
 - Conflict between users: No major incidents were reported on the BLM segment of the Wild & Scenic River. Groups monitored included boaters, campers along the river, anglers, fly-fishermen.

Conclusion:

RMP requirements were met.

Socioeconomic Conditions

Implementation Monitoring

Monitoring Question 1:

What strategies and programs have been developed, through coordination with state and local governments, to support local economies and enhance local communities?

Monitoring Requirements

Program Review

Findings:

The Jobs-in-the-Woods program is a principle strategy along with forest development and other contracting.

Conclusion:

RMP requirements were met.

Monitoring Question 2:

Are RMP implementation strategies being identified that support local economies?

Monitoring Requirements

Program Review

Findings:

Contracting of implementation projects related to RMP programs, and facilities have supported local economies. The value of district contracting for fiscal year 2004 was approximately \$5,600,000. This includes a wide diversity of projects from forest development to facility maintenance. The value of contracted services ranges from tens of thousands of dollars down to tens of dollars.

The value of timber sold in fiscal year 2004 was \$2,187,155.04. The monies associated with timber sales are paid as timber is harvested over the life of the contract, which three years or less. As documented in the Annual Program Summary and this monitoring report, harvest levels of sales actually awarded have been approximately 29% of that anticipated in the RMP.

In Fiscal Year 2004, Roseburg District had a total appropriation of \$20,542,000.

- \$12,933,000 Oregon & California Railroad Lands (O&C)
- \$896,000 Jobs-in-the-Woods Program
- \$462,000 Deferred Maintenance
- \$50,000 Forest Ecosystems Health & Recovery
- \$118,000 Forest Pest Control
- \$334,000 Timber Pipeline
- \$63,000 Recreation Pipeline
- \$2,456,000 Title II, Secure Rural Schools
- \$482,000 Management of Lands & Resources (MLR)
- \$1,059,000 Infrastructure Improvement
- \$177,000 Challenge Cost Share/ Cooperative Conservation Initiative
- \$474,000 Fire Related Programs
- \$1,038,000 Construction

There were 160 full-time employees during Fiscal Year 2004. An average of 35 term, temp, or cooperative student employees were on board at various times throughout the year.

Conclusion:

RMP requirements were met.

Monitoring Question 3:

What is the status of planning and developing amenities that enhance local communities, such as recreation and wildlife viewing facilities?

Monitoring Requirements

Program Review

Findings:

North Bank Habitat Management Area ACEC is currently undergoing planning for local recreational and wildlife viewing opportunities consistent with other ACEC objectives. Further detail of recreational or other amenities that would enhance local communities are described in the Annual Program Summary.

Conclusion:

RMP requirements were met.

Timber Resources

Implementation Monitoring

Monitoring Question 1:

By land-use allocation, how do timber sale volumes, harvested acres, and the age and type of harvest compare to the projections in the RMP?

Monitoring Requirements:

Program and data base review. The Annual Program Summary will report volumes sold. The report will also summarize annual and cumulative timber sale volumes, acres to be harvested, and stand ages and types of harvest for General Forest Management Areas, Connectivity/Diversity Blocks and Adaptive Management Areas, stratified to identify them individually.

Monitoring Performed:

Program and data base were reviewed and summary prepared.

Finding:

The comparison of timber sale volumes and acres reveal substantive differences compared to the RMP management action/direction ASQ of 7.0 million cubic feet (45 million board feet) and RMP assumptions regarding mix of harvest types and number of regeneration and thinning acres. These differences are displayed in Table 13 through Table 17 and in Figure 1.

Comment/Discussions:

To meet the ASQ commitment, the Roseburg District does timber sale planning including preparing an environmental analysis, and conducts timber sale preparation which includes cruising, appraising and contract preparation. Timber sales are then advertised and auctioned at oral auctions. When timber sales become active, contract administration is conducted to ensure contract compliance. Importantly, the Roseburg District is investing in the future of the forests through forest development and reforestation activities.

The Roseburg District was unable to offer the full ASQ level of timber sales required under the RMP in fiscal year 2004, primarily due to the inability to consult on actions likely to adversely affect listed fish species. The district offered 7 timber sales for a combined volume of 22.7 MMBF. All of these sales were commercial thinnings except for one fire salvage sale. The district also sold negotiated timber sales for a combined volume of 1.3 MMBF. The value of all timber sold in fiscal 2004 was \$4,081,160.50. The monies associated with timber sales are paid as timber is harvested over the life of the contract, which is three years or less. Timber sale receipts collected by the Roseburg District in fiscal year 2004 from active harvesting totaled \$2,187,155.04 from Oregon and California Railroad, Coos Bay Wagon Road and Public Domain Lands.

Under Section 15 of the Small Business Act (15 U.S.C. 631) BLM is required sell a certain percent of advertised timber sale volume to businesses with less than 500 employees. That percent is currently calculated at 56% for the Roseburg District. When the requisite percent is not achieved through the normal bidding process, a requirement is "triggered" to set aside timber sales to offer exclusively to small businesses. The Roseburg District was triggered for the first half of fiscal year 2004. One of the three sales sold at auction during the first half of the fiscal year was set-aside for small business. Small business concerns also purchased one of two open bid sales, resulting in the district not being triggered in the second half of fiscal year 2004.

Table 17. Roseburg District Timber Sale Volume and Acres.

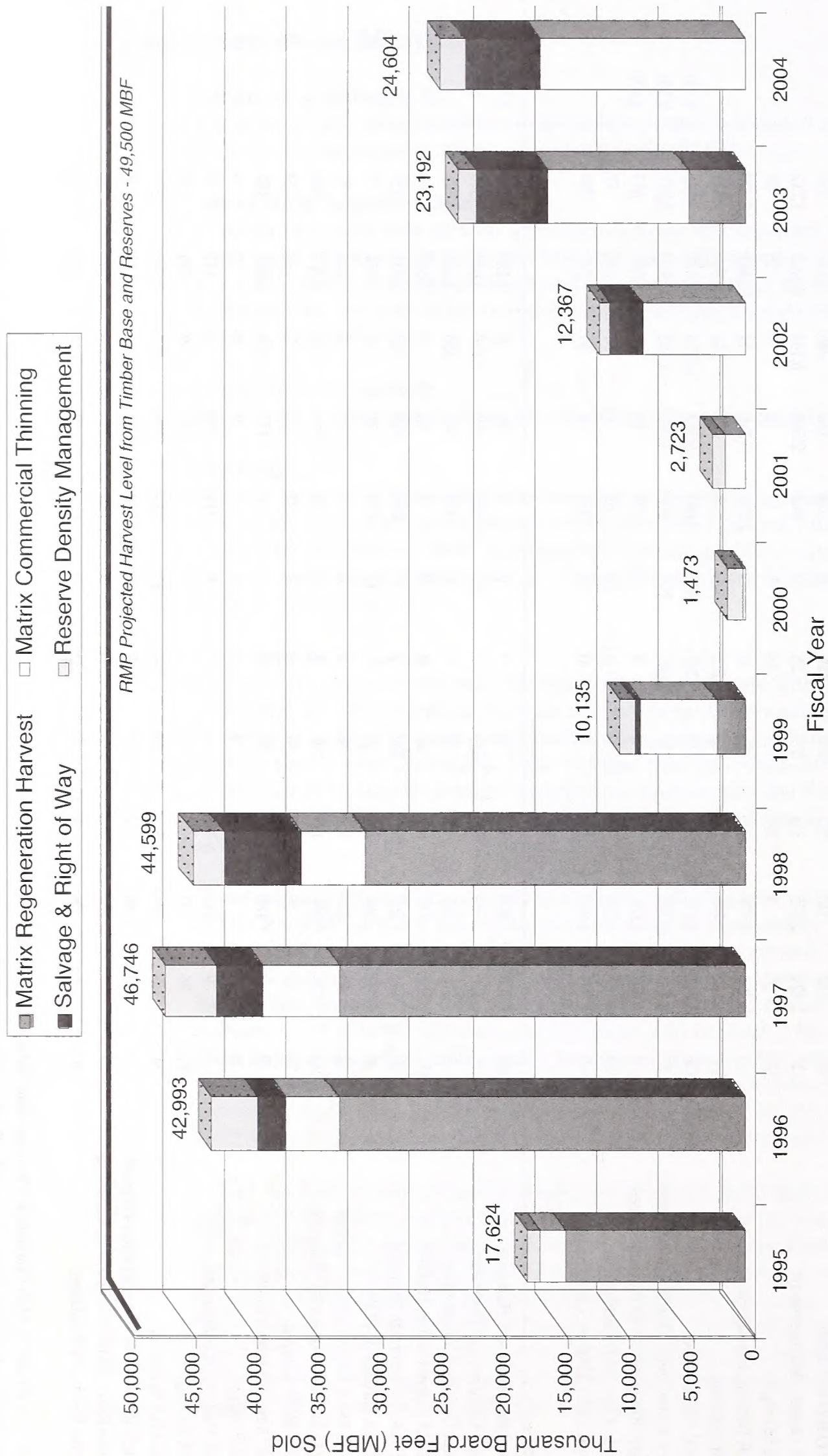
MBF														
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	1995-2004 Total	1995-2004 Annual Average	RMP/EIS Assumed Annual Average	Percent of Assumed Average
Total Timber Sale Volume	17,624	45,993	51,783	44,726	10,135	1,473	2,723	11,755	23,192	24,604	234,006	26,001	49,500	53%
Matrix Timber Sales	17,004	41,055	42,692	37,887	9,416	1,190	2,071	8,754	16,591	17,847	194,508	21,612	45,000	48%
GFMA Regeneration Harvest	13,285	32,172	27,575	24,786	1,055	-39	0	0	2,311	-1	101,145	11,238		
GFMA Commercial Thinning	1,657	3,016	2,907	3,451	4,022	166	1,794	4,307	7,332	12,645	32,164	3,574		
GFMA Salvage & ROW	323	1,817	3,516	1,446	438	477	277	358	517	1,052	10,076	1,120		
C/D Block Regeneration Harvest	1,130	629	5,123	5,869	1,353	0	0	0	2,367	5	16,476	1,831		
C/D Block Commercial Thinning	457	2,978	3,455	1,739	2,059	166	0	3,755	3,899	3,901	22,434	2,493		
C/D Block Salvage	153	442	117	597	488	586	0	334	166	246	3,102	345		
RR Density Management	24	2,424	2,175	811	395	55	2	868	2,548	6,103	15,405	1,712		
RR Salvage	245	55	3	236	140	18	1	17	0	0	715	79		
LSR Density Management	63	102	1,728	5,559	151	0	0	1,724	3,318	14	12,861	1,429		
LSR Salvage	204	1,162	266	123	33	210	595	36	717	559	3,701	411		
Total All Reserves	536	3,743	4,172	6,728	719	282	598	2,645	6,583	6,676	32,683	3,631	4,500	81%
Key Watersheds Matrix Timber Sales	25	8,439	18,392	12,767	2,351	681	791	201	1,811	1,492	46,950	5,217	8,700	60%
Little River AMA All Harvest Types	0	1,033	4,682	30	0	0	0	294	18	0	6,057	673	4,600	15%
Little River AMA Salvage	83	162	236	81	0	0	54	63	0	81	691	77		
Total AMA Timber Sales	83	1,195	4,918	111	0	0	54	357	18	81	6,747	750		
Acres														
Total Regeneration Harvest	386	906	836	800	56	0	0	0	146	0	3,130	348	1,190	29%
Total Commercial Thinning	113	426	568	536	411	2	87	457	858	1,190	4,648	516	250	207%
Total Density Management	2	216	301	483	38	0	0	179	372	436	2,041	227		
GFMA Regeneration Harvest	354	866	713	649	20	0	0	0	65	0	2,667	296		
GFMA Commercial Thinning	69	197	267	361	209	2	87	250	560	939	2,941	327		
GFMA Salvage & ROW	30	47	289	125	16	16	13	29	51	57	654	73		
C/D Block Regeneration Harvest	32	40	123	151	36	0	0	0	81	0	463	51		
C/D Block Commercial Thinning	44	229	301	175	203	0	0	173	296	251	1,673	186		
C/D Block Salvage	20	35	25	52	16	4	0	12	10	7	179	20		
RR Density Management	0	216	188	97	38	0	0	60	183	436	1,218	135		
RR Salvage	8	4	0	20	9	1	1	2	0	0	45	5		
LSR Density Management	2	0	113	386	0	0	0	119	189	0	823	91		
LSR Salvage	21	96	33	8	2	9	18	1	26	19	219	24		
Total All Reserves	31	316	334	511	49	10	19	183	398	455	2,305	256		
Little River AMA Regeneration Harvest	0	0	68	0	0	0	0	0	0	0	68	8		
Little River AMA Commercial Thinning	0	94	134	0	0	0	0	34	2	0	264	29		
Little River AMA Salvage	10	9	36	7	0	0	2	3	0	5	67	7		

GFMA, C/D Block & AMA Commercial Thinning totals include all intermediate harvest types

LSR & RR Density Management totals include all intermediate harvest types

Salvage totals also include timber sales designated as Right of Way (ROW) harvests and SFP Wood Products

Figure 1. Annual Timber Sale Volumes Compared to RMP Projected Harvest Level



Tables 13 to 16 below provide a summary, by land use allocation and harvest type, of timber sale volumes and acres of timber harvested since the signing of the NFP. Table 17 provides a complete overview of harvest by activity.

Conclusion:

These discrepancies will be examined in a RMP evaluation scheduled for fiscal year 2004.

Monitoring Question 2:

Were the silvicultural (e.g., planting with genetically selected stock, fertilization, release, and thinning) and forest health practices anticipated in the calculation of the expected sale quantity, implemented?

Monitoring Requirement:

Program and data base review. An annual district wide report will be prepared to determining if the silvicultural and forest health practices identified and used in the calculation of the Allowable Sale Quantity were implemented. This report will be summarized in the Annual Program Summary.

Monitoring Performed:

Program and data base were reviewed and summary prepared.

Finding:

Examination of fiscal year 2004 data indicate differences between implementation and RMP assumed levels of activity. These differences are shown in Table 17.

Comment/Discussion:

Data is for contracts awarded after October 1, 1995. Data is displayed by fiscal year of contract award and does not necessarily correspond with the year the project was actually accomplished.

Table 18. Roseburg District Forest Development Activities.

	FY 96-03	FY 04	Totals to Date	Average Annual	Planned Annual	Differences Actual-Planned	Accomplishments as a % of RMP Assumptions
Brushfield Conversion	0	0	0	0	15	(135)	0%
Site Preparation (fire)	2,591	0	2,591	288	840	(4,969)	34%
Site Preparation (other)	13	0	13	1	50	(437)	3%
Planting (total)	5,859	159	6,024	669	1,430	(6,846)	47%
Planting (regular)	4,308	116	4,466	496	290	1,856	171%
Planting (improved stock)	1,533	43	1,576	175	1,140	(8,684)	15%
Maintenance/Protection	9,625	134	9,687	1,076	830	2,072	130%
PCT	32,107	4,030	35,123	3,903	3,900	23	100%
Pruning	4,519	1,485	6,292	699	460	2,152	152%
Fertilization	5,504	0	5,504	612	1,440	(7,456)	42%
Reforestation Surveys	94,977	10,321	105,298	11,700	11,750	(452)	100%

Data is for forest development contracts awarded after October 1, 1995. Data is displayed by fiscal year of contract award and does not necessarily correspond with the year the project was actually accomplished. Percent accomplishments are annualized based on nine years of implementation. Numbers in parentheses are negative numbers.

Brush field Conversion - To date no acres have undergone conversion. It is not expected that any attempt would be made unless herbicides were available as a conversion tool. A vegetation EIS that would allow the use of herbicides for control of competing vegetation for forest management is currently being prepared at the national level.

Site Preparation (FIRE) - The number of acres prepared with prescribed fire, both broadcast treatment and pile treatment is about 34% of planned. A continued decline in trend is likely to continue due to less than expected levels of regeneration harvest and other resource concerns.

Site Preparation (OTHER) - The number of acres prepared with alternative site preparation techniques is about 3% of planned. Factors affecting this activity are the same as for site preparation, fire.

Planting (regular stock) - Total planted acres since 1995 without regard to genetic quality is at 47% of RMP assumed levels due to lack of planned RMP levels of timber harvest. Reforestation with genetically unimproved planting stock is 171% of planned. Total planting for 2004 is about 11% of the average annual level anticipated in the RMP because the Roseburg District has been unable to award any significant regeneration harvest timber sales since 1997. Regeneration harvests are the mechanism by which areas are made available for planting to start new forest stands for subsequent rotations. It is likely that in 2005, planting will remain far below planned levels because of the lack of the regeneration harvests which were anticipated in the RMP.

Planting (improved stock) - In fiscal year 2004, 18% of the acres reforested were planted with genetically improved Douglas-fir. All of the acres planted were in the GFMA land use allocation. Only GFMA acres are counted towards RMP monitoring goals since genetic improvement is assumed to contribute to ASQ only when done on GFMA acres. A phase in period for use of genetically improved Douglas-fir of 3 to 4 years was assumed to allow for older sales outside the GFMA land use allocation to be reforested and for seed orchards to reach production. However, planning for production of genetically improved stock has proved difficult due to the uncertainty of timber harvest timing. Seed must be sown one to three years prior to actual need. Due to decline in timber harvest overall and uncertainty in harvest timing, it is likely that this target will be approximately 20-30% of RMP levels by the end of the decade.

Maintenance/Protection - acres of maintenance/protection treatments is currently 130% of planned levels. It is anticipated that at this rate, assumed RMP levels would be exceeded by 10-20%.

Precommercial Thinning (PCT) - currently PCT is at 100% of planned RMP levels. It is expected that at a minimum, RMP goals will be met or slightly exceeded over the decade.

Pruning - Currently pruning accomplishments are 152% of assumed RMP levels. Depending on funding this trend could continue. It is expected that RMP levels will be exceeded by 50 to 60% by decade's end.

Fertilization - Currently fertilization accomplishments are about 42% of assumed RMP levels. Implementation of fertilization has been delayed by an administrative appeal of the proposed action. It is expected that accomplishments will be between 30-40% of planned RMP levels by decades end.

Forest development, reforestation, silvicultural and timber stand improvement practices were accomplished in fiscal year 2004 through contracts valued at approximately \$763,000.

Conclusion:

Differences in silvicultural practices anticipated in the calculation of the allowable sale quantity compared to actual implementation do not constitute RMP non-compliance because they are not substantive enough to result in a change in the calculation of the allowable sale quantity. These discrepancies, however, will be further examined in a RMP evaluation scheduled for fiscal year 2004-2008.

Special Forest Products

Implementation Monitoring

Monitoring Question 1:

Is the sustainability and protection of special forest product resources ensured prior to selling special forest products?

Monitoring Requirements:

Program review.

Monitoring Performed:

Program was reviewed.

Findings:

Use of special provisions on permits that restrict the amount of plant material or plant area to be harvested. Heavily harvested areas rotated or rested as appropriate for at least two years. None are sold if special status species cannot be clearly identified to permittee.

Conclusion:

RMP requirements were met.

Glossary

AMA - Adaptive Management Area - The Roseburg District Little River AMA is managed to develop and test approaches to integrate intensive timber production with restoration and maintenance of high quality riparian habitat.

Allowable Sale Quantity (ASQ) - an estimate of annual average timber sale volume likely to be achieved from lands allocated to planned, sustainable harvest.

Anadromous Fish - Fish that are hatched and reared in freshwater, move to the ocean to grow and mature, and return to freshwater to reproduce. Salmon, steelhead, and shad are examples.

Archaeological Site - A geographic locale that contains the material remains of prehistoric and/or historic human activity.

Area of Critical Environmental Concern (ACEC) - An area of BLM administered lands where special management attention is needed to protect and prevent irreparable damage to important historic, cultural or scenic values, fish and wildlife resources, or other natural systems or processes; or to protect life and provide safety from natural hazards.

Best Management Practices (BMP) - Methods, measures, or practices designed to prevent or reduce water pollution. Not limited to structural and nonstructural controls and procedures for operations and maintenance. Usually, BMPs are applied as a system of practices rather than a single practice.

Biological Diversity - The variety of life and its processes, including a complexity of species, communities, gene pools, and ecological function.

Candidate Species - Plant and animal taxa considered for possible addition to the List of Endangered and Threatened Species. These are taxa for which the Fish and Wildlife Service has on file sufficient information on biological vulnerability and threat(s) to support issuance of a proposal to list, but issuance of a proposed rule is currently precluded by higher priority listing actions.

Cavity Nesters - Wildlife species, most frequently birds, that require cavities (holes) in trees for nesting and reproduction.

Commercial Thinning - The removal of merchantable trees from a stand to encourage growth of the remaining trees.

Connectivity/Diversity Blocks - Lands spaced throughout the matrix lands, which have similar goals as matrix but have management action/direction which affect their timber production. They are managed on longer rotations (150 years), retain more green trees following regeneration harvest (12-18) and must maintain 25-30 percent of the block in late successional forest.

Cubic Foot - A unit of solid wood, one foot square and one foot thick.

Cumulative Effect - The impact that results from identified actions when they are added to other past, present, and reasonably foreseeable future actions regardless of who undertakes such other actions. Cumulative effects can result from individually minor but collectively significant actions taking place over a period of time.

Density Management - Cutting of trees for the primary purpose of widening their spacing so that growth of remaining trees can be accelerated. Density management harvest can also be used to improve forest health, to open the forest canopy, or to accelerate the attainment of old growth characteristics, if maintenance or restoration of biological diversity is the objective.

District Designated Reserves (DDR) - Areas designated for the protection of specific resources, flora and fauna, and other values. These areas are not included in other land use allocations nor in the calculation of the ASQ.

Eligible River - A river or river segment found, through interdisciplinary team and, in some cases interagency review, to meet Wild and Scenic River Act criteria of being free flowing and possessing one or more Outstandingly Remarkable Values.

Endangered Species - Any species defined through the Endangered Species Act as being in danger of extinction throughout all or a significant portion of its range and published in the Federal Register.

Environmental Assessment (EA) - A systematic analysis of site-specific BLM activities used to determine whether such activities have a significant effect on the quality of the human environment; and whether a formal Environmental Impact Statement is required; and to aid an agency's compliance with NEPA when no EIS is necessary.

General Forest Management Area (GFMA) (See Matrix) - This is the land use designation, on which scheduled harvest and silvicultural activities will be conducted that contribute to the ASQ.

Harvested Volume or Harvested Acres - Refers to timber sales where trees are cut and taken to a mill during the fiscal year. Typically, this volume was sold over several years. This is more indicative of actual support of local economies during a given year.

Hazardous Materials - Anything that poses a substantive present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of or otherwise managed.

Land Use Allocation (LUA) - Allocations which define allowable uses / activities, restricted uses / activities and prohibited uses / activities. Each allocation is associated with a specific management objective.

Late-Successional Forests - Forest seral stages that include mature and old growth age classes.

LSR - Late Successional Reserve - lands which are managed to protect and enhance old-growth forest conditions.

Matrix Lands - Land outside of reserves and special management areas that will be available for timber harvest that contributes to the ASQ.

MMBF - abbreviation for million board feet of timber

Noxious Plant/Weed - A plant specified by law as being especially undesirable, troublesome, and difficult to control.

O&C Lands - Public lands granted to the Oregon and California Railroad Company, and subsequently revested to the United States, that are managed by the Bureau of Land Management under the authority of the O&C Lands Act.

Offered (sold) Volume or Offered (sold) Acres - Any timber sold during the year by auction or negotiated sales, including modifications to contracts. This is more of a check on the district's success in meeting the ASQ than it is a socioeconomic indicator, since the volume can get to market over a period of several years.

Off-Highway Vehicle (OHV) - Any motorized track or wheeled vehicle designed for cross-country travel over natural terrain. The term, "Off Highway Vehicle" will be used in place of the term "Off Road Vehicle" to comply with the purposes of Executive Orders 11644 and 11989. The definition for both terms is the same.

Open: Designated areas and trails where Off Highway Vehicles may be operated subject to operating regulations and vehicle standards set forth in BLM Manuals 8341 and 8343.

Limited: Designated areas and trails where Off Highway Vehicles are subject to restrictions limiting the number or types of vehicles, date, and time of use; limited to existing or designated roads and trails.

Closed: Areas and trails where the use of Off Highway Vehicles is permanently or temporarily prohibited. Emergency use is allowed.

Outstanding Natural Area (ONA) - An area that contains unusual natural characteristics and is managed primarily for educational and recreational purposes.

Outstandingly Remarkable Values (ORV) - Values among those listed in Section 1 (b) of the Wild and Scenic Rivers Act: "scenic, recreational, geological, fish and wildlife, historical, cultural, or other similar values . . ." Other similar values that may be considered include ecological, biological or botanical, paleontological, hydrological, scientific, or research.

Precommercial Thinning - The practice of removing some of the trees less than merchantable size from a stand so that remaining trees will grow faster.

Prescribed Fire - A fire burning under specified conditions that will accomplish certain planned objectives.

"Projected Acres" are displayed by age class for the decade. These age class acres are estimates derived from modeling various silvicultural prescriptions for regeneration, commercial thinning and density management harvest or are based on other assumptions.

Regeneration Harvest - Timber harvest conducted with the partial objective of opening a forest stand to the point where favored tree species will be reestablished.

Regional Ecosystem Office (REO) - The main function of this office is to provide staff work and support to the Regional Interagency Executive Committee (RIEC) so the standards and guidelines in the forest management plan can be successfully implemented.

Regional Interagency Executive Committee (RIEC) - This group serves as the senior regional entity to assure the prompt, coordinated, and successful implementation of the forest management plan standards and guidelines at the regional level.

Research Natural Area (RNA) - An area that contains natural resource values of scientific interest and is managed primarily for research and educational purposes.

Resource Management Plan (RMP) - A land use plan prepared by the BLM under current regulations in accordance with the Federal Land Policy and Management Act.

Right-of-Way - A permit or an easement that authorizes the use of public lands for specified purposes, such as pipelines, roads, telephone lines, electric lines, reservoirs, and the lands covered by such an easement or permit.

Rural Interface Areas - Areas where BLM administered lands are adjacent to or intermingled with privately owned lands zoned for 1 to 20-acre lots or that already have residential development.

Seral Stages - The series of relatively transitory plant communities that develop during ecological succession from bare ground to the climax stage. There are five stages:

Early Seral Stage - The period from disturbance to crown closure of conifer stands usually occurring from 0-15 years. Grass, herbs, or brush are plentiful.

Mid Seral Stage - The period in the life of a forest stand from crown closure to ages 15-40. Due to stand density, brush, grass, or herbs rapidly decrease in the stand. Hiding cover may be present.

Late Seral Stage - The period in the life of a forest stand from first merchantability to culmination of Mean Annual Increment. This is under a regime including commercial thinning, or to 100 years of age, depending on wildlife habitat needs. During this period, stand diversity is minimal, except that conifer mortality rates will be fairly rapid. Hiding and thermal cover may be present. Forage is minimal.

Mature Seral Stage - The period in the life of a forest stand from Culmination of Mean Annual Increment to an old growth stage or to 200 years. This is a time of gradually increasing stand diversity. Hiding cover, thermal cover, and some forage may be present.

Old Growth - This stage constitutes the potential plant community capable of existing on a site given the frequency of natural disturbance events. For forest communities, this stage exists from approximately age 200 until when stand replacement occurs and secondary succession begins again. Depending on fire frequency and intensity, old growth forests may have different structures, species composition, and age distributions. In forests with longer periods between natural disturbance, the forest structure will be more even-aged at late mature or early old growth stages.

Silvicultural Prescription - A detailed plan, usually written by a forest silviculturist, for controlling the establishment, composition, constitution, and growth of forest stands.

Site Preparation - Any action taken in conjunction with a reforestation effort (natural or artificial) to create an environment that is favorable for survival of suitable trees during the first growing season. This environment can be created by altering ground cover, soil or microsite conditions, using biological, mechanical, or manual clearing, prescribed burns, herbicides or a combination of methods.

SEIS Special Attention Species - a term which incorporates the "Survey and Manage" and "Protection Buffer" species from the Northwest Forest Plan.

Special Status Species - Plant or animal species in any of the following categories

- Threatened or Endangered Species
- Proposed Threatened or Endangered Species
- Candidate Species
- State-listed Species
- Bureau Sensitive Species
- Bureau Assessment Species

Visual Resource Management (VRM) - The inventory and planning actions to identify visual values and establish objectives for managing those values and the management actions to achieve visual management objectives.

Wild and Scenic River System - A National system of rivers or river segments that have been designated by Congress and the President as part of the National Wild and Scenic Rivers System (Public Law 90-542, 1968). Each designated river is classified as one of the following:

Wild River - A river or section of a river free of impoundments and generally inaccessible except by trail, with watersheds or shorelines essentially primitive and waters unpolluted. Designated wild as part of the Wild and Scenic Rivers System.

Scenic River - A river or section of a river free of impoundments, with shorelines or watersheds still largely primitive and undeveloped but accessible in places by roads. Designated scenic as part of the National Wild and Scenic Rivers System.

Recreational River - A river or section of a river readily accessible by road or railroad, that may have some development along its shorelines, and that may have undergone some impoundment or diversion in the past. Designated recreational as part of the National Wild and Scenic Rivers System.

Acronyms/Abbreviations

ACEC	- Area of Critical Environmental Concern
ACS	- Aquatic Conservation Strategy
APS	- Annual Program Summary
BA(s)	- Biological Assessments
BLM	- Bureau of Land Management
BMP(s)	- Best Management Practices
CBWR	- Coos Bay Wagon Road
CFER	- Cooperative Forest Ecosystem Research
COPE	- Coastal Oregon Productivity Enhancement project
CT	- Commercial Thinning
CX	- Categorical Exclusions
CWA	- Clean Water Act
CWD	- Coarse woody debris
DEQ	- Oregon Dept. Of Environmental Quality
DM	- Density Management
EA	- Environmental Analysis
EIS	- Environmental Impact Statement
EPA	- U.S. Environmental Protection Agency
ERFO	- Emergency Relief Federally Owned
ERMA	- Extensive Recreation Management Area
ESA	- Endangered Species Act
ESU	- Evolutionarily Significant Unit
FEIS	- Final Environmental Impact Statement
FLPMA	- Federal Land Policy and Management Act
FONSI	- Finding of No Significant Impacts
FS	- Forest Service (USFS)
FY	- Fiscal Year
GFMA	- General Forest Management Area
GIS	- Geographic Information System
GTR	- Green Tree Retention
IDT	- Interdisciplinary Teams
LSR	- Late-Successional Reserve
LUA	- Land Use Allocation
LWD	- Large Woody Debris
MMBF	- Million board feet
MOA	- Memorandum of Agreement
MOU	- Memorandum of Understanding
NEPA	- National Environmental Policy Act
NFP	- Northwest Forest Plan
NMFS	- National Marine Fisheries Service
O&C	- Oregon and California Revested Lands
ODF	- Oregon Department of Forestry
ODFW	- Oregon Department of Fish and Wildlife
OSU	- Oregon State University
PACs	- Province Advisory Councils
PD	- Public Domain
PGE	- Portland General Electric
PILT	- Payment in lieu of taxes
PL	- Public Law
PSQ	- Probable Sale Quantity
RA	- Resource Area
REO	- Regional Ecosystem Office
RIEC	- Regional Interagency Executive Committee
RMP	- Resource Management Plan

RMP/ROD	-	The Roseburg District Resource Management Plan/ Record of Decision
RO	-	FS Regional Office
ROD	-	Record of Decision
RPA	-	Reserve Pair Area
RR	-	Riparian Reserve
R/W	-	Right-of-Way
SEIS	-	Supplemental Environmental Impact Statement
S&G	-	Standard and Guideline
S&M	-	Survey and Manage
SRMA	-	Special Recreation Management Area
TMO	-	Timber Management Objective(s)
TMP	-	Transportation Management Plan
TPCC	-	Timber Productivity Capability Classification
UO	-	University of Oregon
USDA	-	U.S. Department of Agriculture
USFS	-	U.S. Forest Service
USFWS	-	U.S. Fish and Wildlife Service
WC	-	Watershed Council
WFSA	-	Wildfire Situation Analysis
WQMP	-	Water Quality Management Plan

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Roseburg District Office
777 N.W. Garden Valley Blvd
Roseburg, Oregon 97470

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

**PRIORITY MAIL
POSTAGE & FEES PAID
Bureau of Land Management
Permit No. G-76**



**BUREAU OF
LAND
MANAGEMENT**

**ROSEBURG
DISTRICT
OFFICE**

BLM/OR/WA/PL-05/016-1792